



# Skywarn Weather Spotter Training

## Spring 2021 Sessions



*When Thunder Roars - Head Indoors*  
*See a Flash – Dash Inside*



*#SpringSafety #SummerSafety*  
*Turn Around Don't Drown*

[www.weather.gov/wrn/spring-safety](http://www.weather.gov/wrn/spring-safety)





# Outline

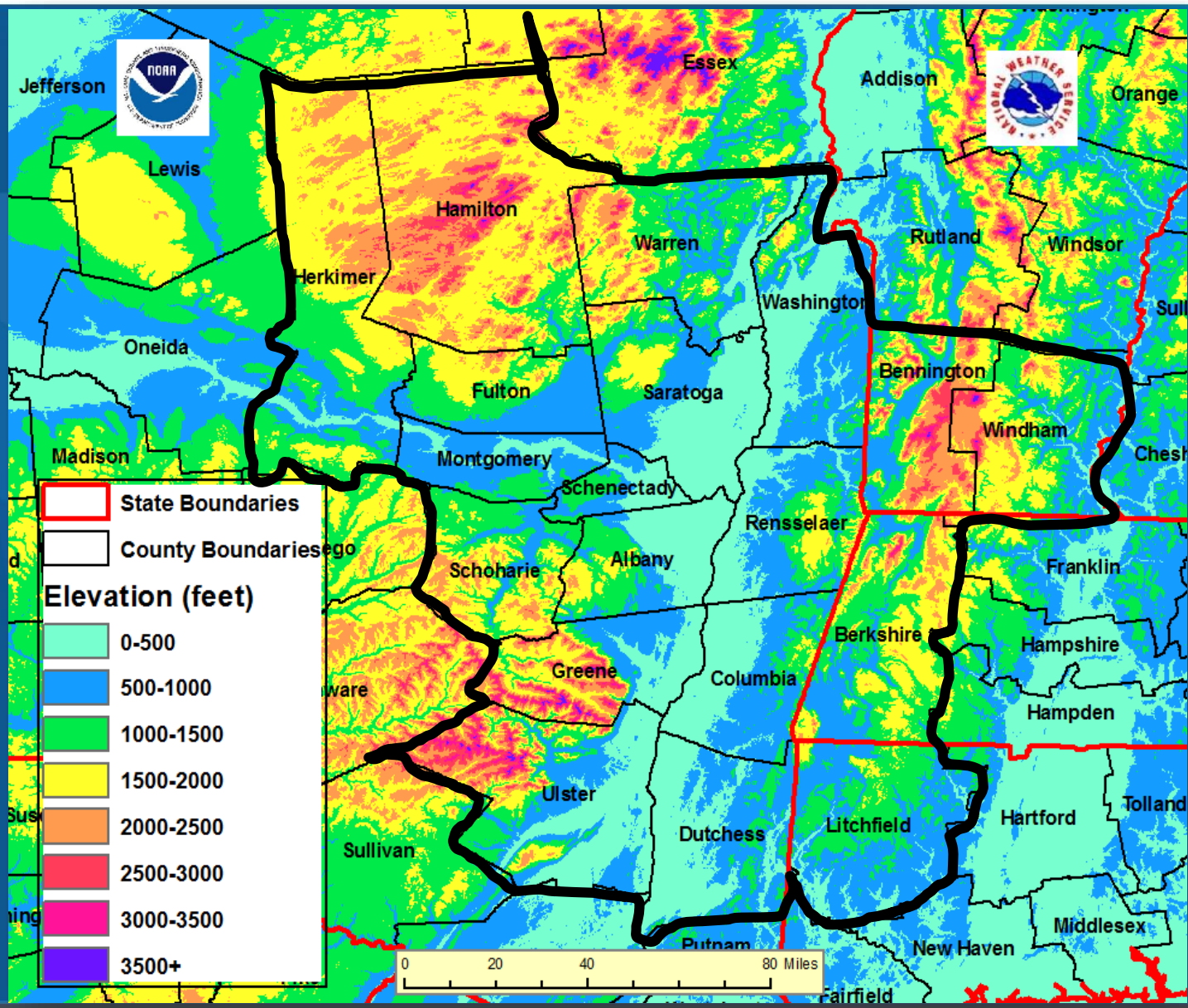
- I. Area of Responsibility
- II. Spotter Safety
- III. Severe Weather Information
- IV. Thunderstorm Development
- V. Lightning
- VI. Hail
- VII. Damaging Winds
- VIII. Cloud formations
- IX. Tornadoes
- X. Timeliness of Reports
- XI. Excessive Rainfall and Flooding
- XII. New York Mesonet
- XIII. CoCoRaHS
- XIV. QUIZ
- XV. Certificate





# Local Topography – Albany Forecast Area

- 15 NY Counties
- 2 VT Counties
- 1 MA County
- 1 CT County
- 1/3 of our forecast area is at elevations of 1500 feet and above!







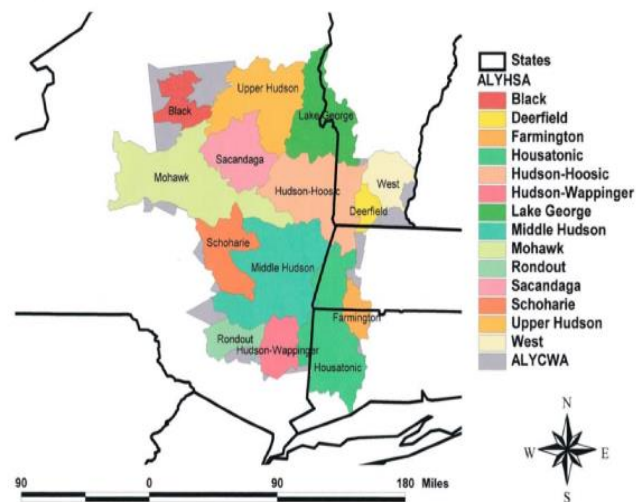
# Hydrologic Area of Responsibility



## NWS River Forecast Centers



## Major River Basins in ALY HSA

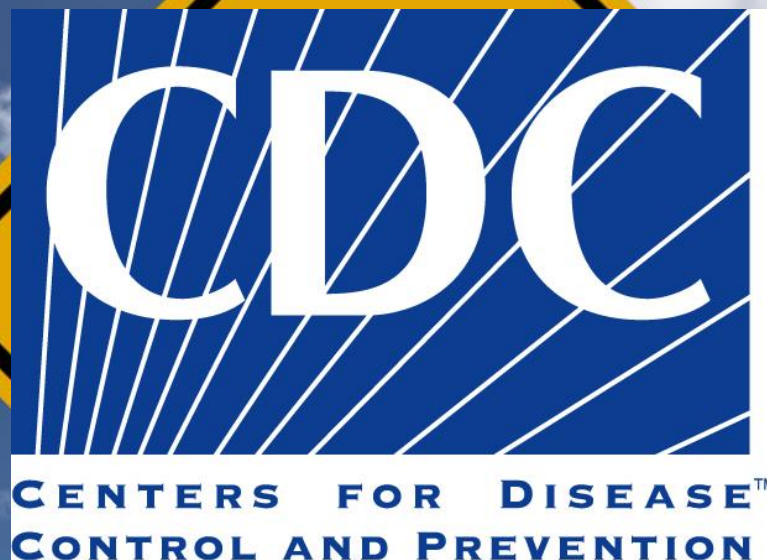






# Skywarn Safety

**A**wareness  
**C**ommunication  
**E**scape routes  
**S**afety zones



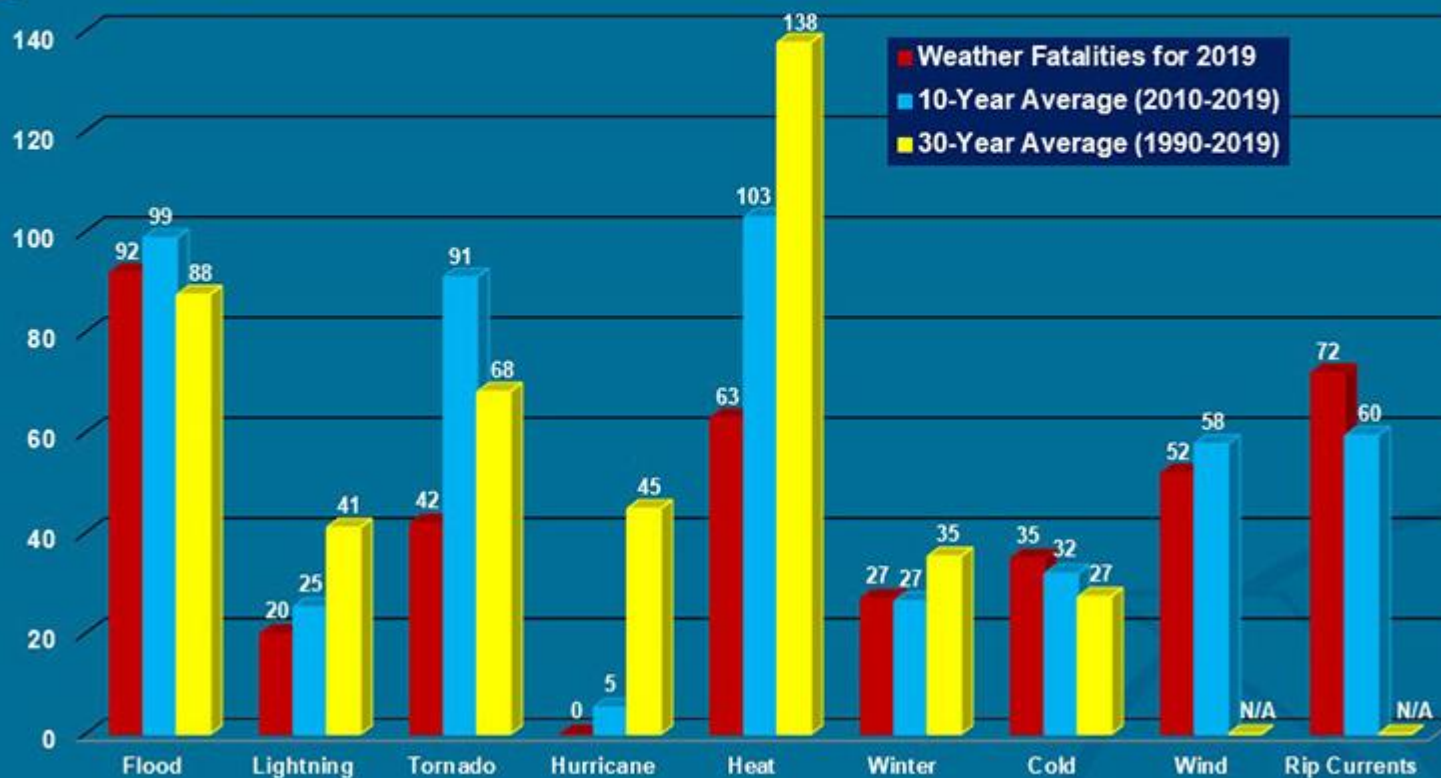
Your Safety is ALWAYS #1



# Skywarn Safety



## Weather Fatalities 2019







# Severe Weather Safety Overview

## SEVERE WEATHER

### HAZARDS



Over 280 fatalities occur each year in the U.S. from thunderstorm related hazards.

[weather.gov/safety](https://weather.gov/safety)

**TORNADO**  
Take shelter immediately in a sturdy structure



**LARGE HAIL**  
Move indoors away from windows



**SEVERE WIND**  
Move indoors away from windows



**FLOODING**  
Avoid rising creeks and water covered roads



**LIGHTNING**  
Move indoors if you hear thunder







# Heat Safety

**Heat Index** = Temperature + Humidity

**Heat Advisory  
Warning**

**Excessive Heat**



## Dress the Part



Wide-brimmed hat

Sunglasses



Light colored clothes

Sunscreen



**Weather-Ready Nation**

National Oceanic and Atmospheric Administration

National Weather Service

[weather.gov/heat](http://weather.gov/heat)



HEAT EXHAUSTION	OR	HEAT STROKE
Faint or dizzy		Throbbing headache, confusion
Excessive sweating		No sweating
Cool, pale, clammy skin		Body temperature above 103° Red, hot, dry skin
Nausea or vomiting		Nausea or vomiting
Rapid, weak pulse		Rapid, strong pulse
Muscle cramps		May lose consciousness
<ul style="list-style-type: none"><li>• Get to a cooler, air conditioned place</li><li>• Drink water if fully conscious</li><li>• Take a cool shower or use cold compresses</li></ul>		<p><b>CALL 9-1-1</b></p> <ul style="list-style-type: none"><li>• Move person to cooler place</li><li>• Cool using cool cloths or bath</li><li>• Do not give anything to drink</li></ul>



# What is a Skywarn Spotter?

**Observe**

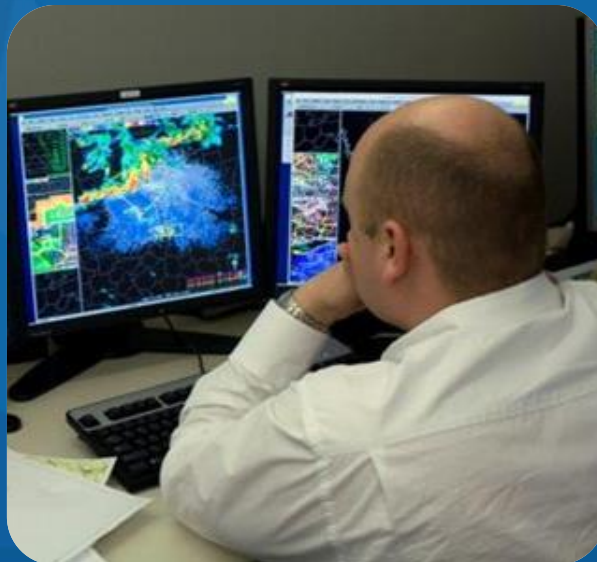
**Report**

**Warning**

**Radar sees this.**

**Spotters see this!**

**Why trained storm spotters  
are essential for public safety!**



## Severe Thunderstorm Warning

Valid Until  
2:45 PM EDT Tuesday  
April 9, 2019

### Threat Information



#### WIND

Up to  
60 MPH



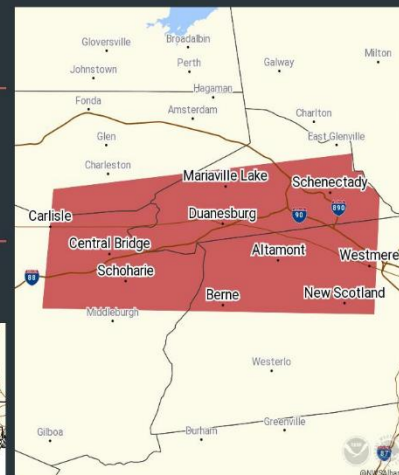
#### HAIL

Nickel  
Sized Possible

### Potential Exposure



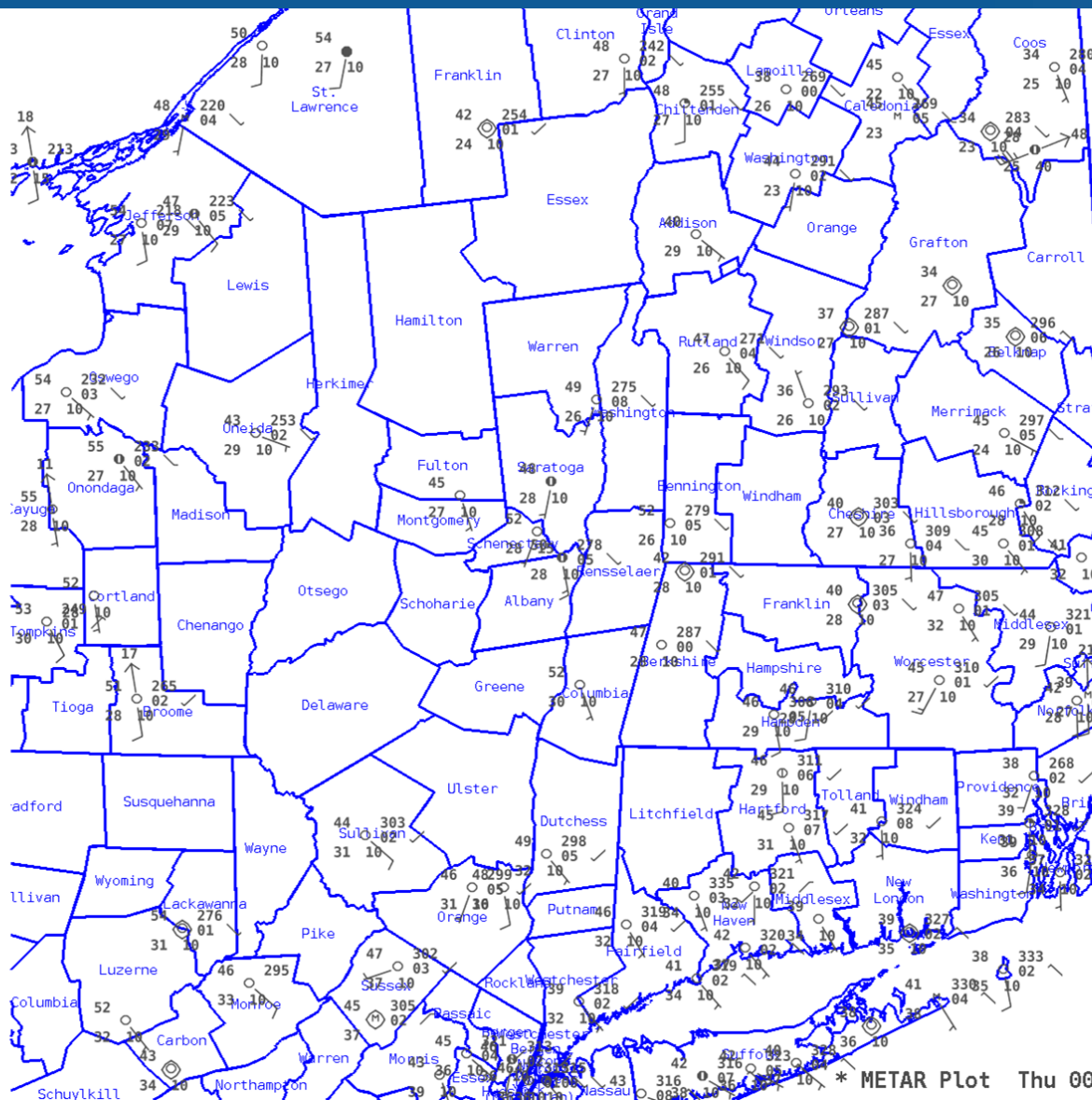
Population: 197,853  
Schools: 59  
Hospitals: 4



**Why trained storm spotters  
are essential for public safety!**



# Regional & Mesonet Observations



\* METAR Plot Thu 00:00Z 11-Mar





# Skywarn Spotter Information Sheet



NATIONAL WEATHER SERVICE, NOAA  
ALBANY, NY  
SKIWARN INFORMATION SHEET



## Report Severe Weather (Backup)

Weather Spotter Field Guide	<a href="http://www.weather.gov/media/owlie/SGJune6-11(1).pdf">www.weather.gov/media/owlie/SGJune6-11(1).pdf</a>
Email	<a href="mailto:alb.stormreport@noaa.gov">alb.stormreport@noaa.gov</a>
NWS Albany	<a href="http://www.weather.gov/Albany">www.weather.gov/Albany</a>
Twitter	<a href="https://twitter.com/NWSAlbany">@NWSAlbany</a>
Facebook Page	<a href="https://www.facebook.com/NWSAlbany">https://www.facebook.com/NWSAlbany</a>
NOAA Weather Radio	<a href="https://www.weather.gov/nwr/">https://www.weather.gov/nwr/</a>
Storm Prediction Center	<a href="http://www.spc.noaa.gov">www.spc.noaa.gov</a>
NWS Online Weather School	<a href="http://www.weather.gov/jetstream">www.weather.gov/jetstream</a>
Weather Prediction Center	<a href="http://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a>
River Flood Monitoring	<a href="http://water.weather.gov/ahps">water.weather.gov/ahps</a>
CoCoRaHS	<a href="http://www.cocorahs.org">www.cocorahs.org</a>
NWS Amateur Radio Frequency	Primary 146.64 MHz - Secondary 145.19 MHz

## IMPORTANT WEATHER TO REPORT

When you report, please give your location (including your county) and the time of the observation. Try to report as soon as possible after observing the event and, *remember your safety comes first!* Please concentrate on the following phenomena:

<b>SNOWFALL</b>	After 1 inch of new snow, and then at 2 inches, 4 inches, and every 2 inches thereafter (e.g., 2, 4, 6, 9, 12, etc.). Then final storm total at the conclusion of the event.
<b>FREEZING RAIN</b>	As soon as you observe the occurrence of freezing rain or freezing drizzle, especially if it starts to collect on objects. Call again if the ice accumulation exceeds 1/4 inch. (measure on flat surface)
<b>THUNDER SNOW</b>	Location and time of occurrence
<b>WIND SPEEDS</b>	Report wind speeds greater than 40 mph
<b>RAINFALL</b>	Report when you receive one inch (and then at least every inch thereafter)
<b>FUNNEL CLOUD</b>	A "rotating" appendage descending from the base of a cumulonimbus cloud, but not touching the ground. If possible, always look at the area beneath the funnel cloud for flying debris. If flying debris is observed, it is a tornado.
<b>TORNADO</b>	Violently rotating column of air descending from a cumulonimbus cloud and touching the ground. Look for flying debris. If possible, report any injuries or fatalities
<b>HAIL</b>	Report hail 0.75 or larger. Specify the diameter based on the hail scale (see other side)
<b>FLOODING</b>	Report any flooding you observe, including basement, road, stream, creek, and ice jam flooding. Report the name of the stream/creek, road number/name (if applicable) and depth
<b>DAMAGE</b>	Report all storm-related damage (large branches, fallen trees, structural damage, flood damage, etc.) Even if it is several days after the event.

## DEWPOINT SCALE

Degrees "F"	50-55	55-60	60-65	65-70	>70
Comfort Scale					

HAIL	Pea	Plain M&M	Penny	Nickel	Quarter	Half Dollar
Scale	0.25 in	0.50 in	0.75 in	0.88 in	1.00 in	1.25 in
HAIL	Golf Ball	Baseball	Softball			
Scale	1.75 in	2.75 in	4.00 in			

## ENHANCED FUJITA SCALE

EF0	65-85 mph
EF1	86-110 mph
EF2	111-135 mph
EF3	136-165 mph
EF4	166-200 mph
EF5	>200 mph

## ESTIMATED WIND SCALE

25-31 MPH	Large branches in motion; whistling in telephone wires
32-38 MPH	Entire trees in motion; slight difficulty walking against wind
39-54 MPH	Twigs break off trees; wind generally impedes progress
55-72 MPH	Damage to chimneys and TV antenna; large limbs/branches down
73-112 MPH	Roof surfaces damaged; windows broken; light mobile homes moved or overturned; moving vehicles pushed off road
113-157 MPH	Roofs torn off; weak buildings and mobile homes destroyed
≥158 MPH	Severe damage; cars lifted completely off ground

## DEFINITIONS

<b>Severe Thunderstorm</b>	A thunderstorm which produces hail to 1 inch in diameter or larger and/or wind gusts to 58 mph (50 kts) or greater
<b>Watch</b>	Conditions are favorable for the weather event in or near the watch area
<b>Warning</b>	The weather event is imminent or occurring in the warned area
<b>Advisory</b>	The weather event will be an inconvenience. However, if caution is not exercised, it could become life-threatening (mostly during the winter months)
<b>Flash Flood</b>	A flood caused by heavy rainfall in a short period of time, generally less than 6 hrs
<b>Flood</b>	Inundation caused by heavy rain which generally takes greater than 6 hrs to occur
<b>Tornado</b>	A violently rotating column of air which extends from a thunderstorm and it is in contact with the ground
<b>Funnel Cloud</b>	A rotating, funnel-shaped cloud extending from the base of a thunderstorm and is not in contact with the ground
<b>Downburst</b>	A strong downdraft with an outrush of damaging wind on or near the ground
	<b>Macroburst</b> - swath of damaging wind more than 2.5 miles wide
	<b>Microburst</b> - swath of damaging wind 2.5 miles wide or less

## SKYWARN FAQs

- SKYWARN Spotter recertification - every 2 years
- SKYWARN Spotter webpage - <https://www.weather.gov/aly/skywarn>



# Follow us on Facebook & Twitter

[www.facebook.com/NWSAlbany](https://www.facebook.com/NWSAlbany)



US National Weather Service Albany NY

October 8, 2020

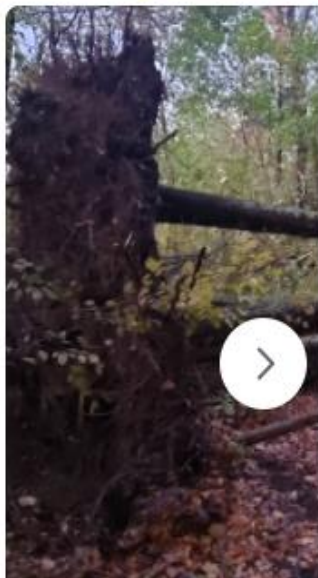
For a detailed review of the high end severe weather event from Wednesday October 7, 2020, visit our weather event summary page here [https://www.weather.gov/.../High-End\\_Severe\\_Weather\\_Event...](https://www.weather.gov/.../High-End_Severe_Weather_Event...)



High End Severe Weather Event October 7, 2020

A high-end severe weather event unfolded across the Albany area...

40



High End Severe Weather Event October 7, 2020

A high-end severe weather event unfolded across the Albany area...

1 Comment 24 Shares



NWS Albany

@NWSAlbany

Heads-up afternoon commuters! Line of showers and some thunderstorms heading into the Mohawk Valley and Greater Capital District has produced winds gusts up to 50-55mph. This may lead to downed trees and power lines through 5PM. Stay safe if you are you traveling. #nywx



Strong to damaging winds possible from line of showers and thunderstorms through 5PM today



WIND



UNSTURDY STRUCTURES



DAMAGING WINDS

[www.weather.gov/albany](https://www.weather.gov/albany)

[NWSAlbany](https://www.facebook.com/NWSAlbany)

[@NWSAlbany](https://twitter.com/NWSAlbany)

[YouTube NWSAlbany](https://www.youtube.com/NWSAlbany)

3:01 PM · Oct 7, 2020 · Twitter Web App



# Timeline of Severe Weather Products

1 Hazardous Weather Outlook (HWO)

2 Coordination with the Storm Prediction Center (SPC)

3 Impact-Based Decision Support (IDSS) Begins

4 Watch Issued for a large area (multiple counties/states)

5 Warning Issued for a small area (few counties)

6 We receive a report from you!





# Storm Prediction Center Outlooks

## Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					

\* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.



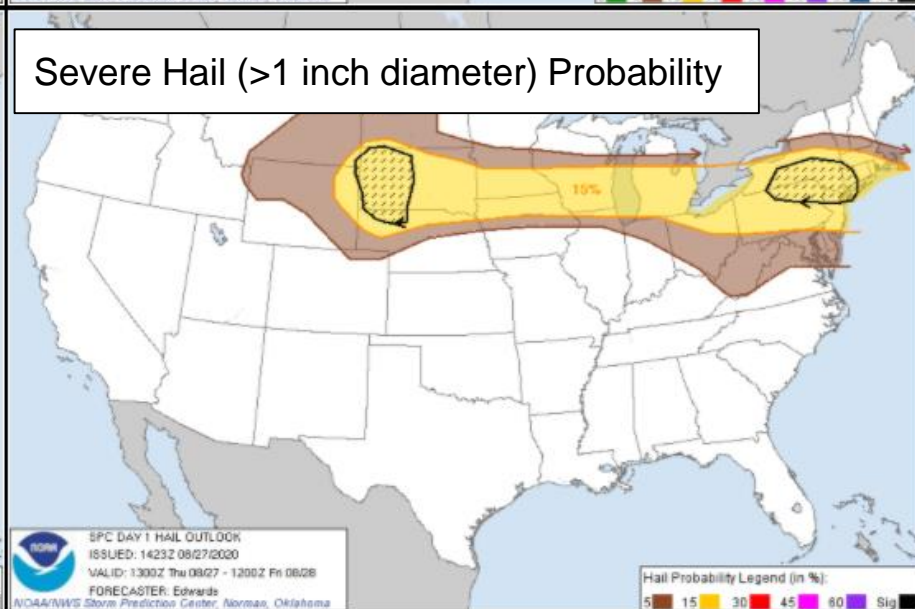
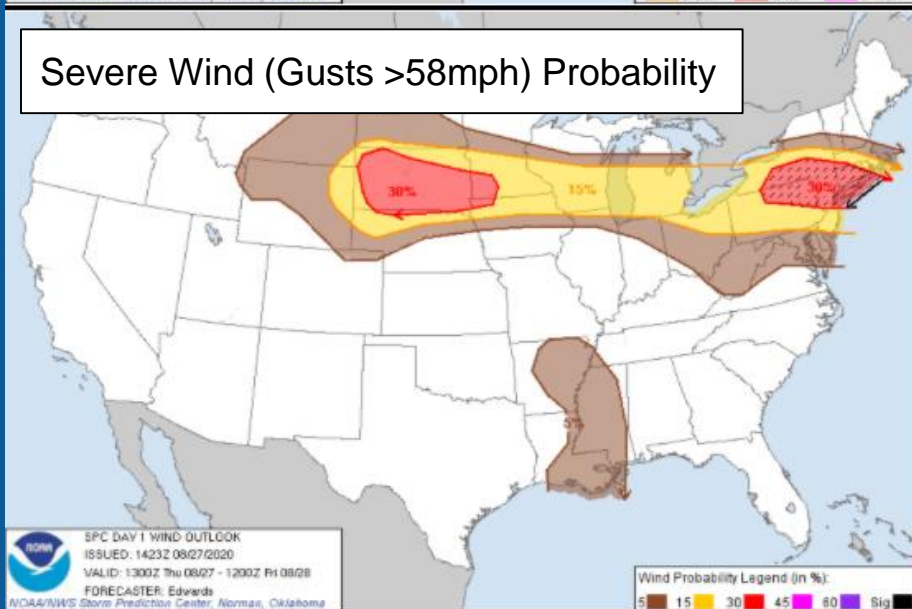
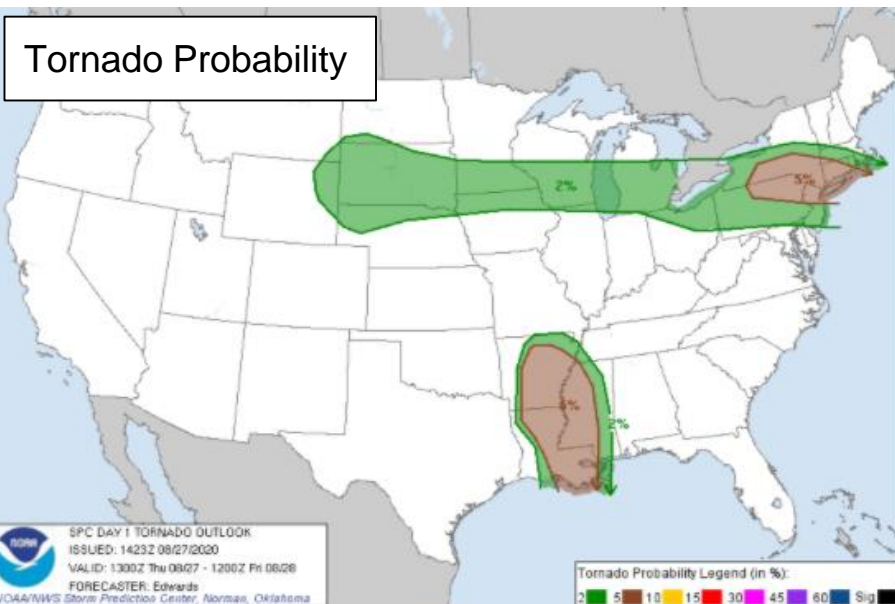
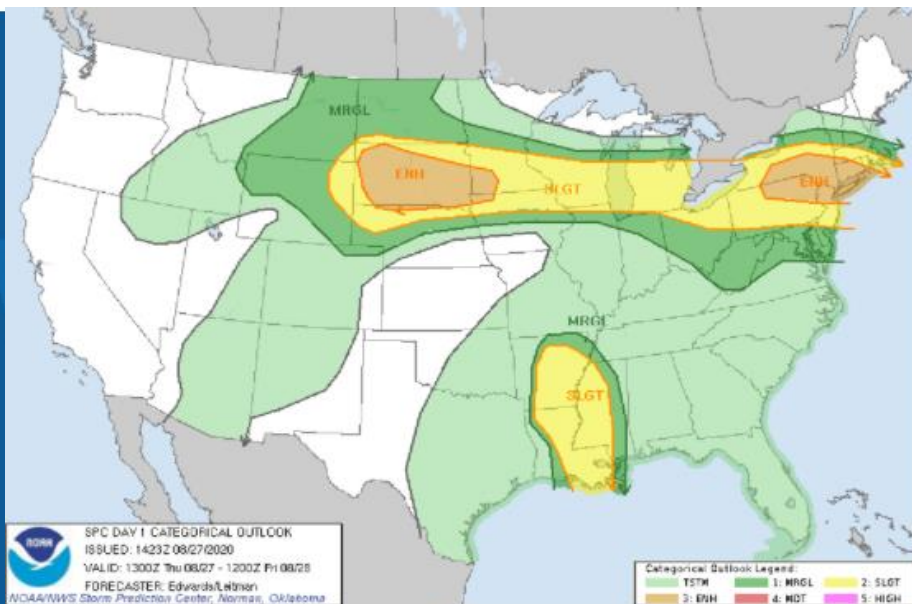
National Weather Service

[www.spc.noaa.gov](http://www.spc.noaa.gov)



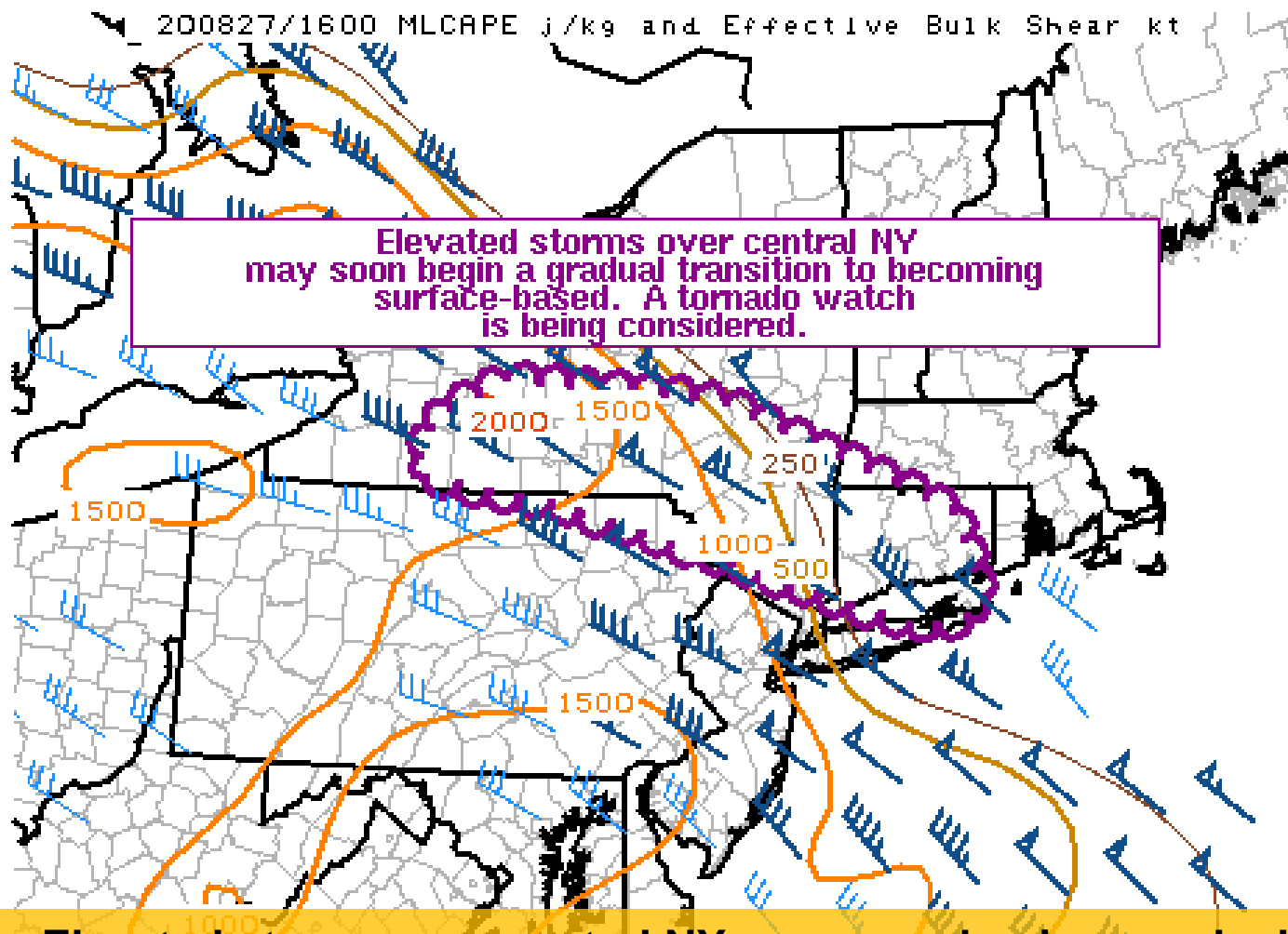


# Probabilistic SPC Outlooks & MCD





## Mesoscale Convective Discussion



Elevated storms over central NY may soon begin a gradual transition to becoming surface-based. One or two watches is likely across the general region from western NY eastward to CT and Long Island.





# Watch vs Warning

know the difference between a severe thunderstorm

## Watch and Warning

### Be Prepared...

severe weather possible

- ☒ Check for forecast updates
- ☒ Monitor sky conditions
- ☒ Know where to take shelter

### Take Action!

severe weather imminent

- Take shelter immediately ☒
- Seek further information ☒
- Check for forecast updates ☒

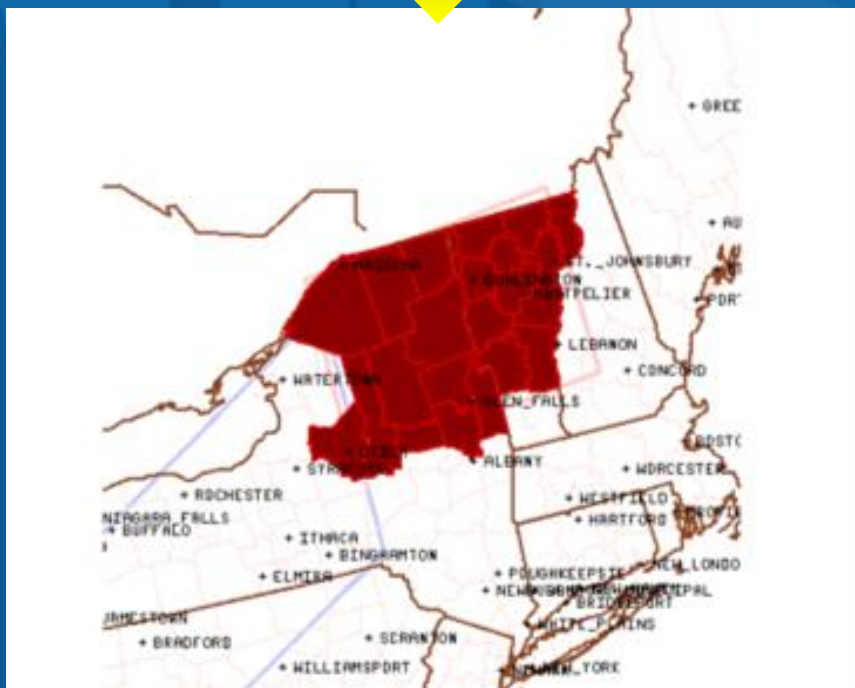
## Be Weather-Ready



# Watch vs Warning

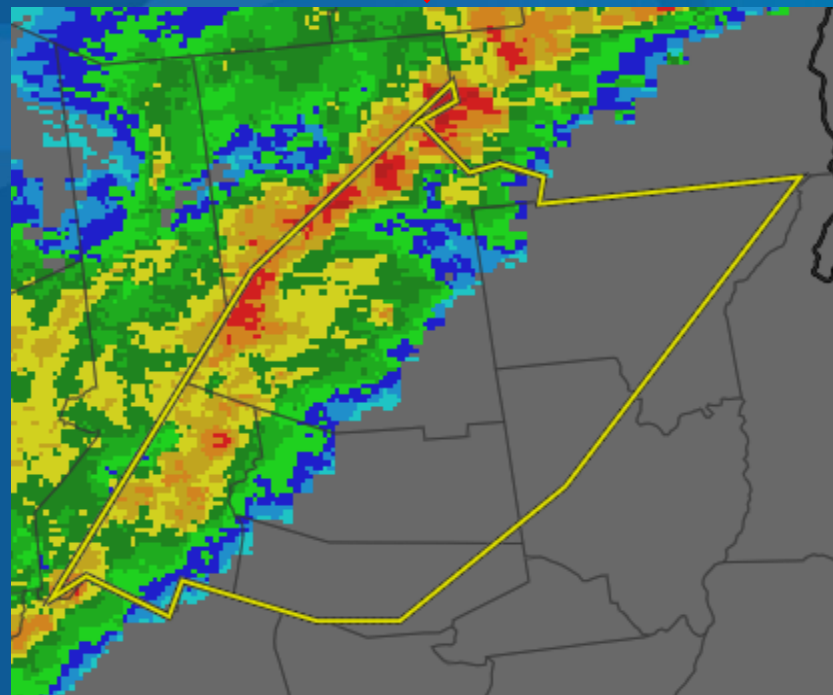
## Watch

- Conditions are favorable for severe weather development over the coming **hours**.
- Remain Alert!



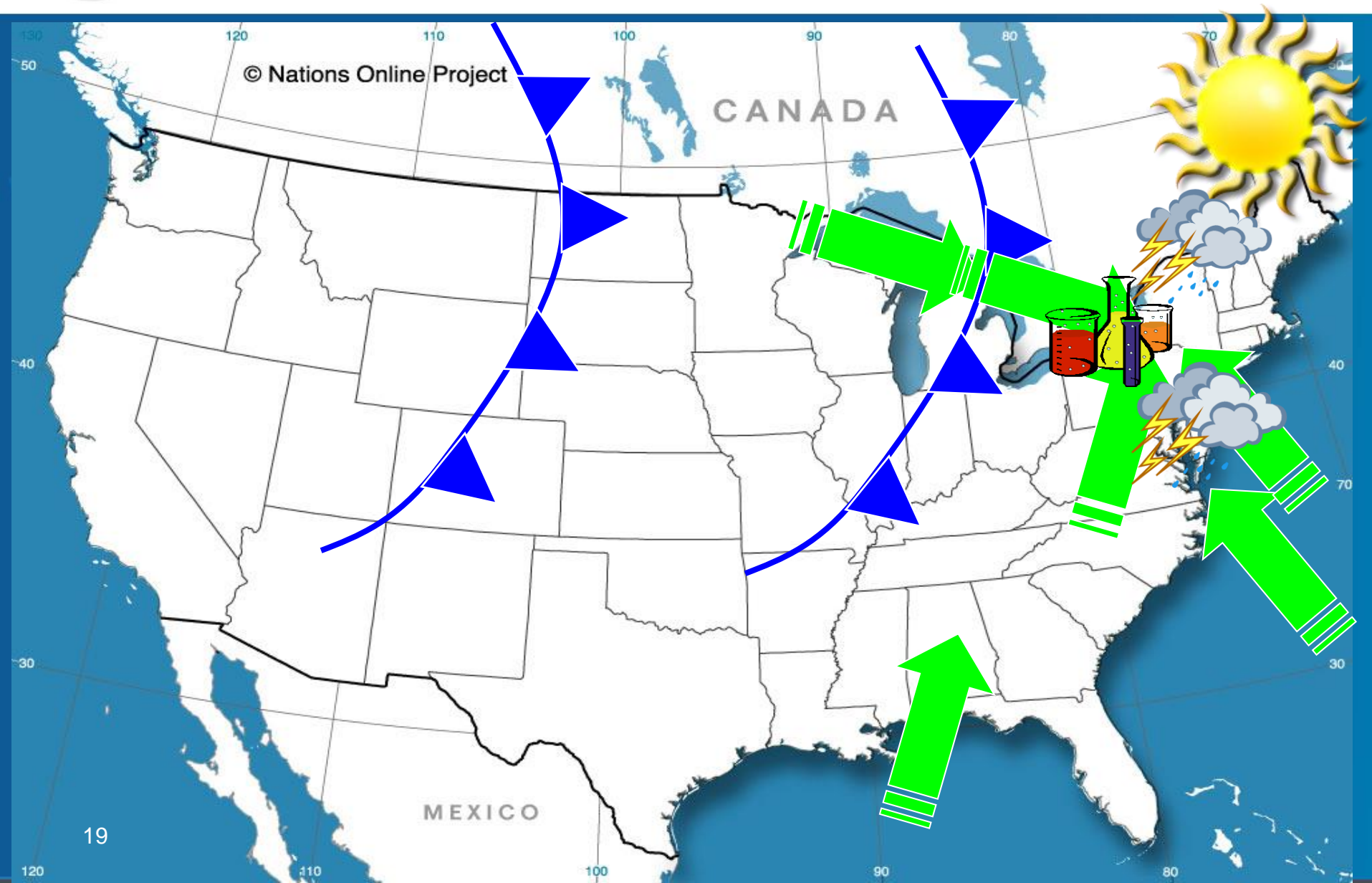
## Warning

- Severe weather is **imminent or ongoing**
- Take immediate action!***





# Thunderstorm Development 101

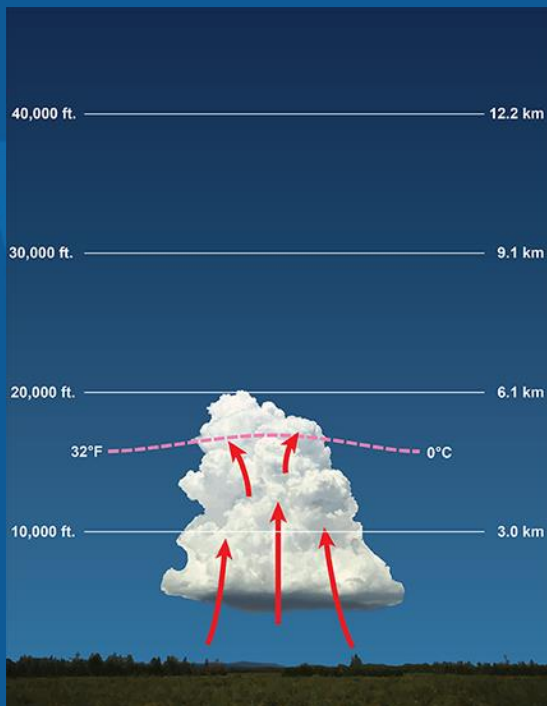




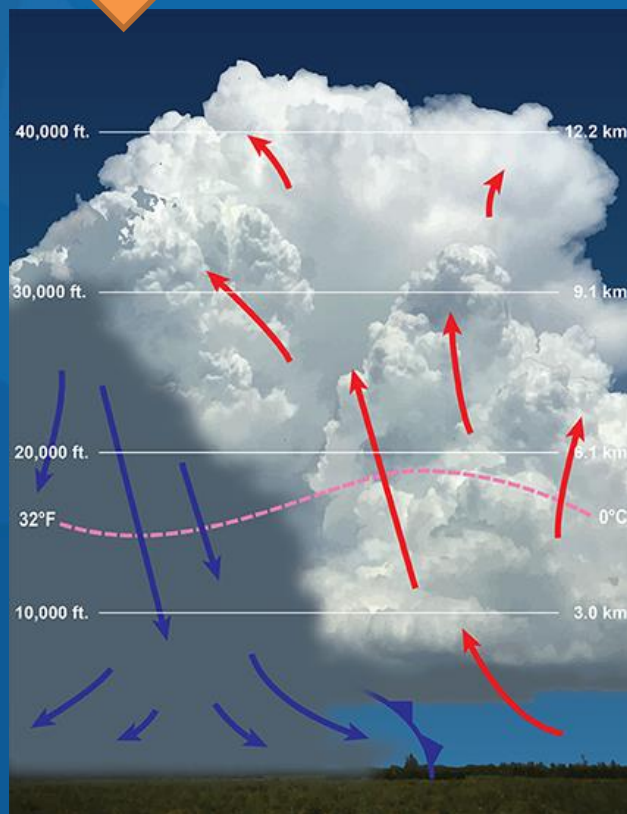


# Overview of Thunderstorm Development

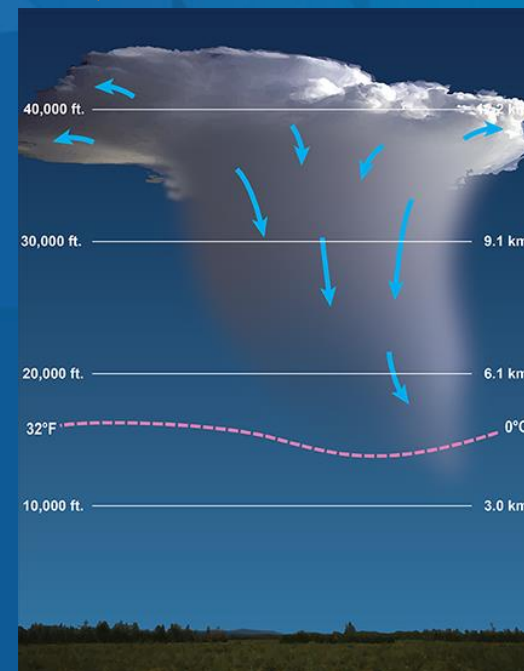
## Cumulus



## Mature Cumulonimbus



## Dissipating





# Lightning Safety

## Lightning

### Do's and Don'ts

#### Do

Go Inside When You Hear Thunder!

Find a Sturdy House, Building, Car With A Roof

Stay Indoors For at Least 30 Minutes After You Last Hear Thunder



#### Don't

Retreat to Dugouts, Sheds, Pavilions, Picnic Shelters or Other Small Structures

Use or Touch Electronics, Outlets, Corded Phones or Windows

Go Under or Near Tall Trees, Swim or Be Near Water, Stand Near Metal Objects



[weather.gov/lightning](http://weather.gov/lightning)



From Flash to Thunder:  
Count 5 seconds =  
1 mile away!

**Lightning Safety 30/30 rule**



Click



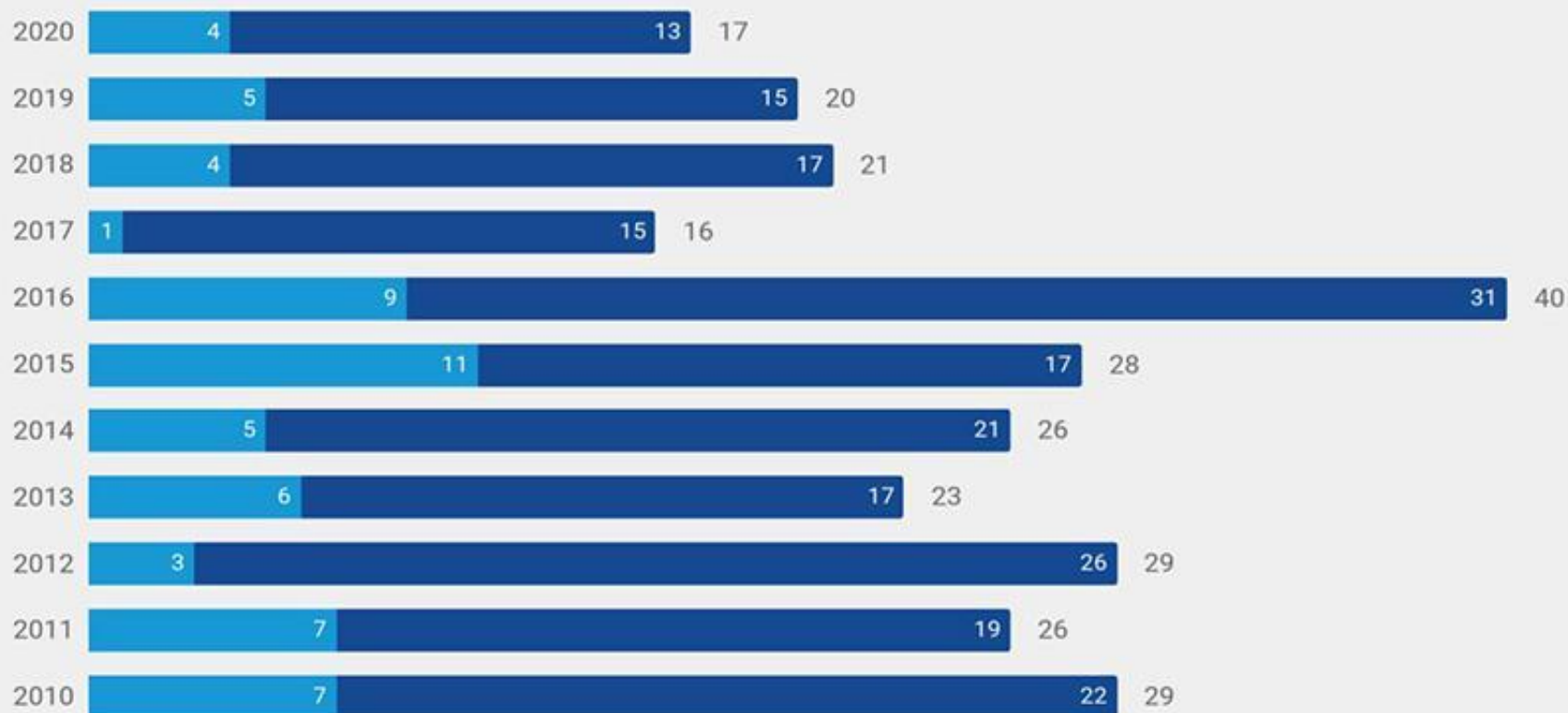
# Lightning Safety

## U.S. Lightning Fatalities, 2010-2020

[weather.gov/lightning](https://weather.gov/lightning)



Female Male







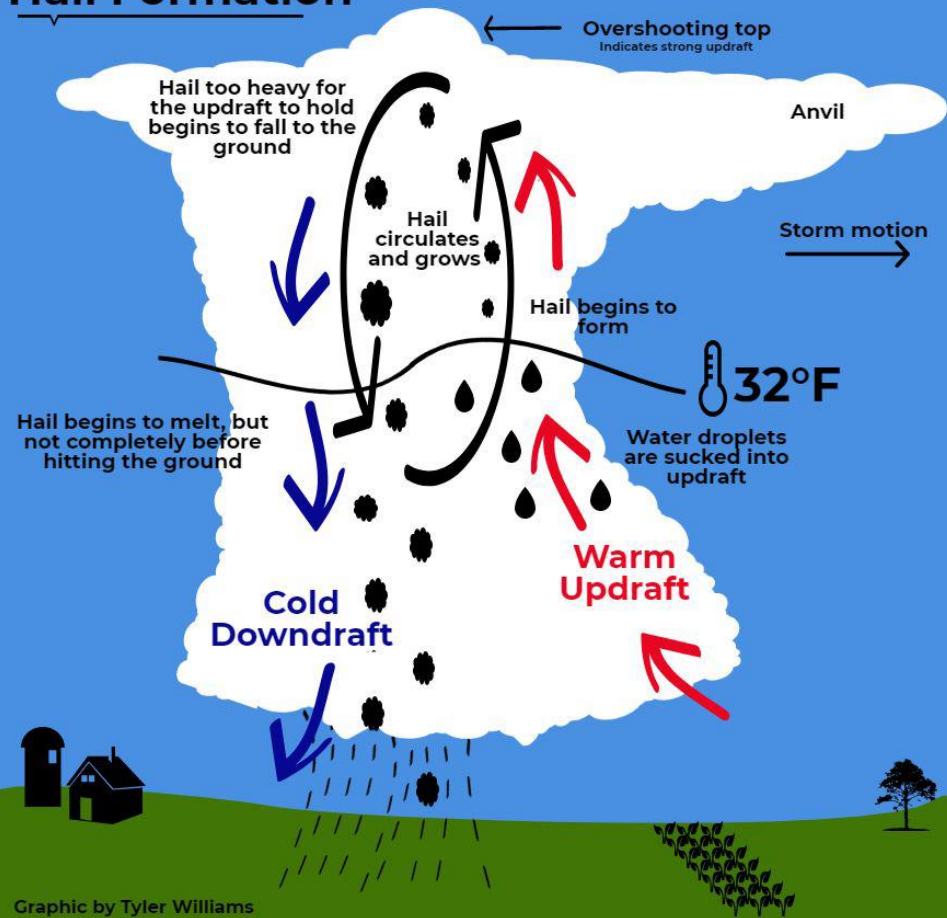
# See a Flash...





# Hail – Development & Formation

## Hail Formation





# Hail – Description Table

0.25 inches		2.00 inches	
Pea		Hen Egg	
0.75 inches		2.50 inches	
Penny		Tennis Ball	
1.00 inches		2.75 inches	
Quarter		Baseball	
1.50 inches		3.80 inches	
Ping Pong Ball		Softball	
1.75 inches		4.50 inches	
Golf Ball		Grapefruit	

## Hail Sizes

$< \frac{1}{4}''$  = BB

$\frac{1}{4}''$  = Pea

$\frac{7}{10}''$  = Dime

$\frac{3}{4}''$  = Penny

$\frac{7}{8}''$  = Nickel

1" = Quarter

1  $\frac{1}{4}''$  =  $\frac{1}{2}$  Dollar

1  $\frac{1}{2}''$  = Ping Pong Ball

1  $\frac{3}{4}''$  = Golf Ball

2" = Hen Egg

2  $\frac{1}{2}''$  = Tennis Ball

2  $\frac{3}{4}''$  = Baseball

3" = Tea Cup

4" = Softball

4  $\frac{1}{2}''$  = Grapefruit

SEVERE

*Measure along long axis!*





# Hail: May 15, 2018 Saugerties Supercell



**Many 2" diameter to baseball-size hail reports**



# What the Hail?!? – Vehicle Safety



***Stop driving. Stay out of culverts and lowland areas.***



***If you can see a safe place close-by to drive to (i.e. inside a garage, or under a service station awning), then get there quickly  
Make sure you pull completely off the highway.***



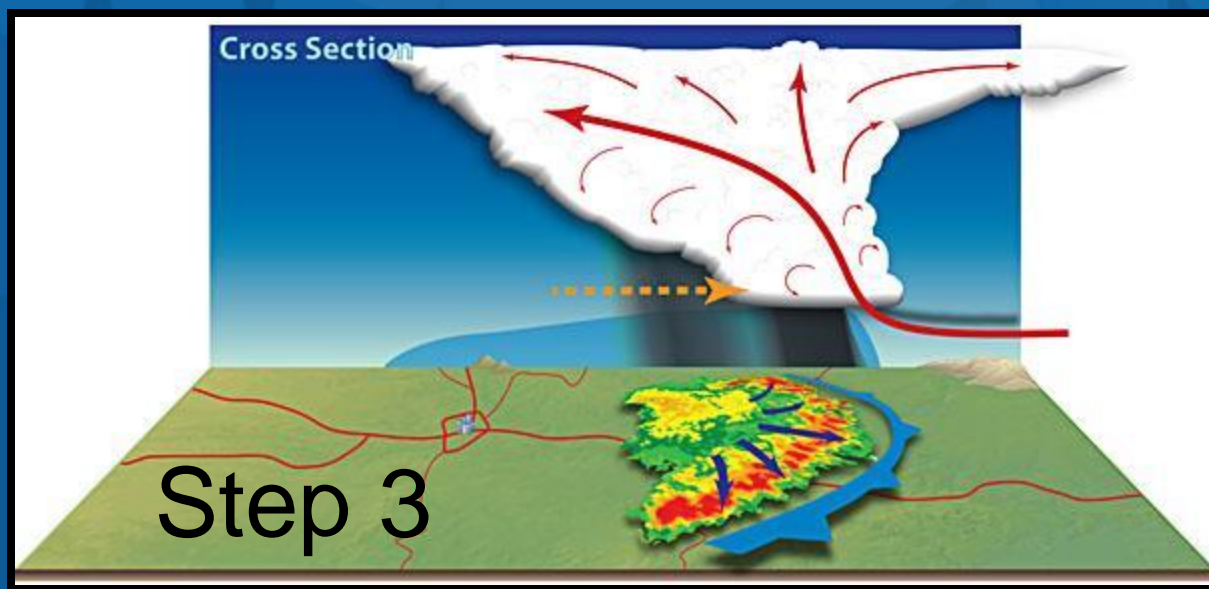
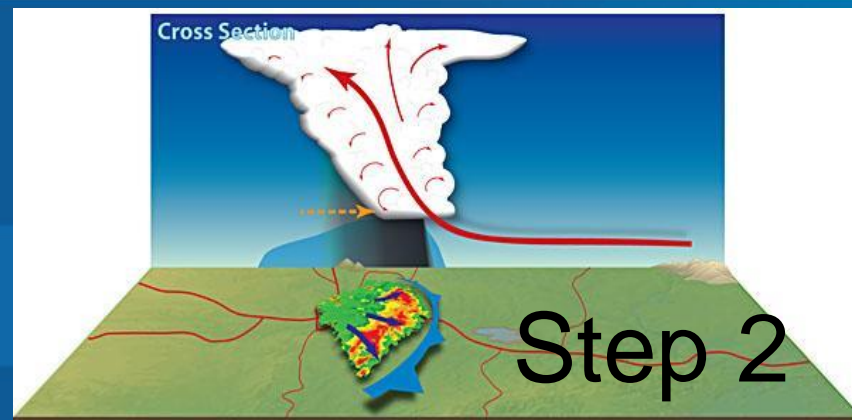
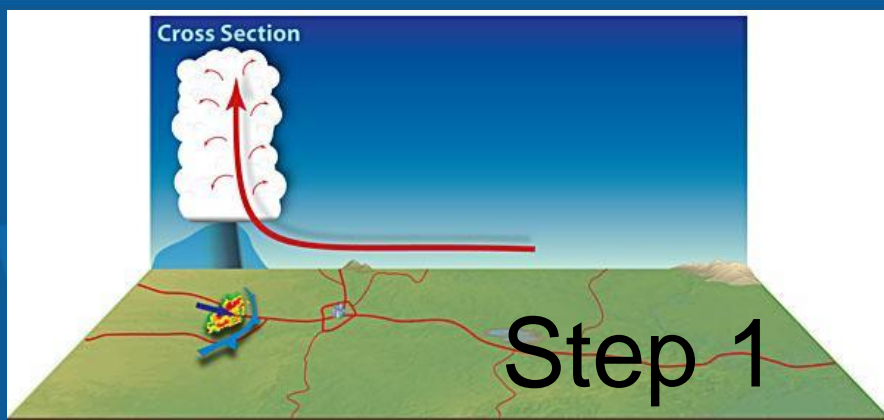
*Stephanie Vandewalker  
Golden, Colorado  
May 2017*

***Do NOT leave the vehicle until it stops hailing. Your car will provide reasonable protection.***

***Cover your face and eyes.  
If possible, get onto the floor face down, or lay down on the seat with your back to the windows in a car.***



# Damaging Wind – How?



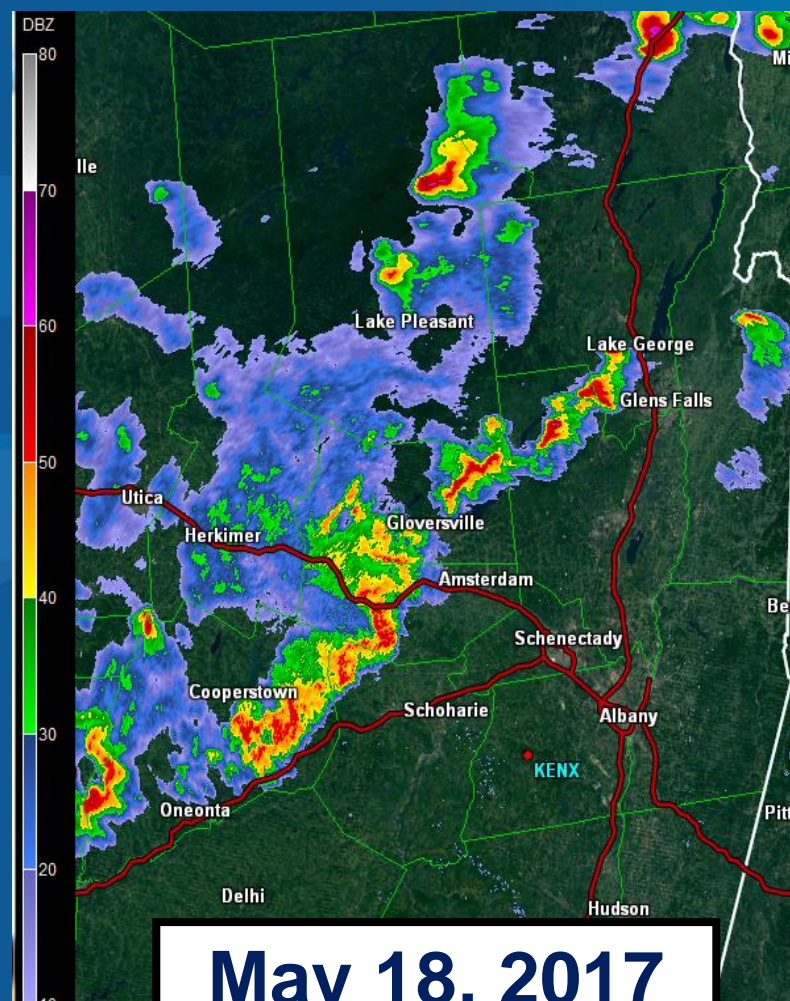




# Damaging Winds – Radar



**May 4, 2018**



**May 18, 2017**





# Damaging Winds – May 2018





# Microburst - June 5, 2020



*Courtesy of Howie Altschule -- I-90 near Castleton, NY*





# Derechos



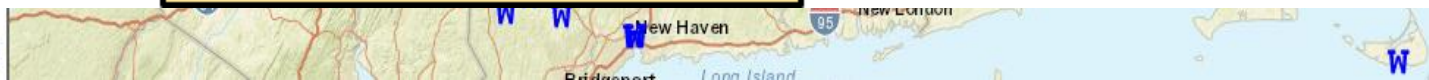
## ***What is a Derecho?***

Widespread, long-lived wind storm made up of rapidly moving thunderstorms.  
Often can cover hundreds of miles & last multiple



# October 7, 2020 Derecho Event

"Typical" Severe Thunderstorm Warning	Enhanced Severe Thunderstorm Warning	Enhanced Severe Thunderstorm Warning
<p>PRECAUTIONARY/PREPAREDNESS ACTIONS...</p> <p>For your protection move to an interior room on the lowest floor of a building.</p> <p>&amp;&amp;</p> <p>Please report hail size...damaging winds and reports of trees down to the National Weather Service by email at <a href="mailto:Alb.Stormreport@noaa.gov">Alb.Stormreport@noaa.gov</a>... On Facebook at <a href="https://www.facebook.com/nwsalbany">www.facebook.com/nwsalbany</a> or twitter @nwsalbany</p> <p>LAT...LON 4322 7507 4324 7507 4323 7510 4326 7516 4330 7515 4330 7512 4333 7508 4346 7465 4333 7367 4309 7380 4274 7435 4277 7467 4283 7465 4290 7488 4284 7489 4282 7491 4291 7510 4286 7514 4286 7521 4305 7522 TIME...MOT...LOC 1845Z 279DEG 58KT 4333 7461 4318 7479 4301 7529</p> <p>HAIL...&lt;.75IN WIND...60MPH</p> <p>\$\$</p>	<p>PRECAUTIONARY/PREPAREDNESS ACTIONS...</p> <p>For your protection move to an interior room on the lowest floor of a building.</p> <p>This is a DANGEROUS SITUATION. These storms are currently producing widespread wind damage across the Mohawk Valley. SEEK SHELTER NOW inside a sturdy structure and stay away from windows!</p> <p>&amp;&amp;</p> <p>Please report hail size...damaging winds and reports of trees down to the National Weather Service by email at <a href="mailto:Alb.Stormreport@noaa.gov">Alb.Stormreport@noaa.gov</a>... On Facebook at <a href="https://www.facebook.com/nwsalbany">www.facebook.com/nwsalbany</a> or twitter @nwsalbany</p> <p>LAT...LON 4308 7244 4283 7282 4239 7378 4259 7465 4283 7465 4285 7473 4308 7422 4345 7367 4339 7325 4331 7324 4330 7282 4325 7282 4322 7269 4323 7243 TIME...MOT...LOC 1920Z 283DEG 69KT 4339 7366 4307 7414 4271 7493</p> <p>HAIL...&lt;.75IN WIND...70MPH</p> <p>\$\$</p>	<p>PRECAUTIONARY/PREPAREDNESS ACTIONS...</p> <p>This is a DANGEROUS SITUATION. This storm is producing widespread wind damage across the Mohawk Valley and Capital Region of New York. SEEK SHELTER NOW inside a sturdy structure and stay away from windows.</p> <p>&amp;&amp;</p> <p>LAT...LON 4300 7244 4288 7255 4273 7247 4274 7302 4264 7295 4239 7301 4238 7307 4231 7300 4195 7305 4160 7437 4174 7457 4188 7445 4204 7474 4217 7445 4220 7454 4235 7443 4251 7470 4278 7369 4333 7326 4323 7243 TIME...MOT...LOC 2008Z 288DEG 62KT 4282 7326</p> <p>TORNADO...POSSIBLE HAIL...0.88IN WIND...80MPH</p> <p>\$\$</p>





# Scud Clouds vs Mammatus

**Scud Cloud  $\approx$  No Worries!**

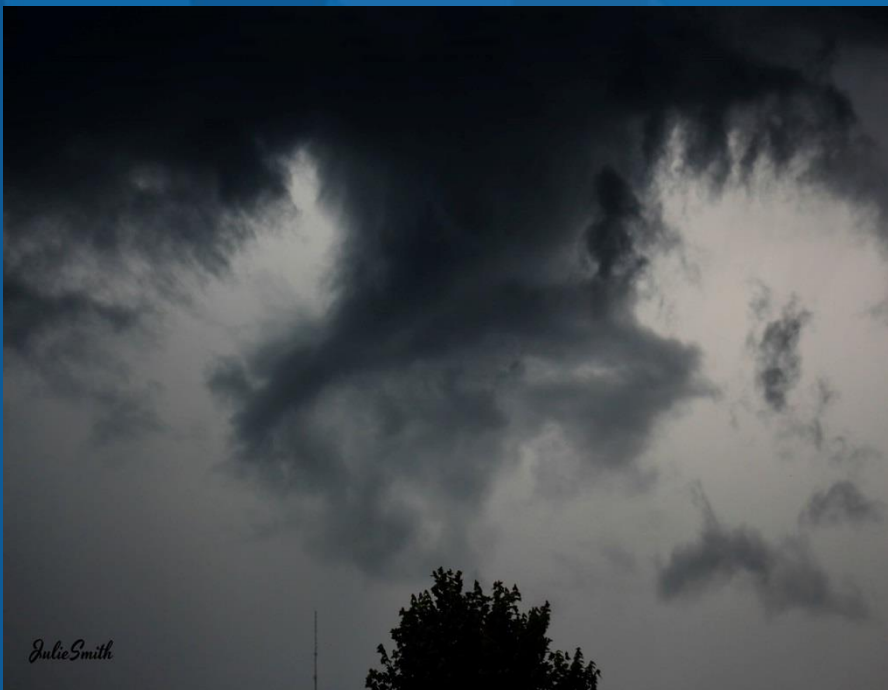
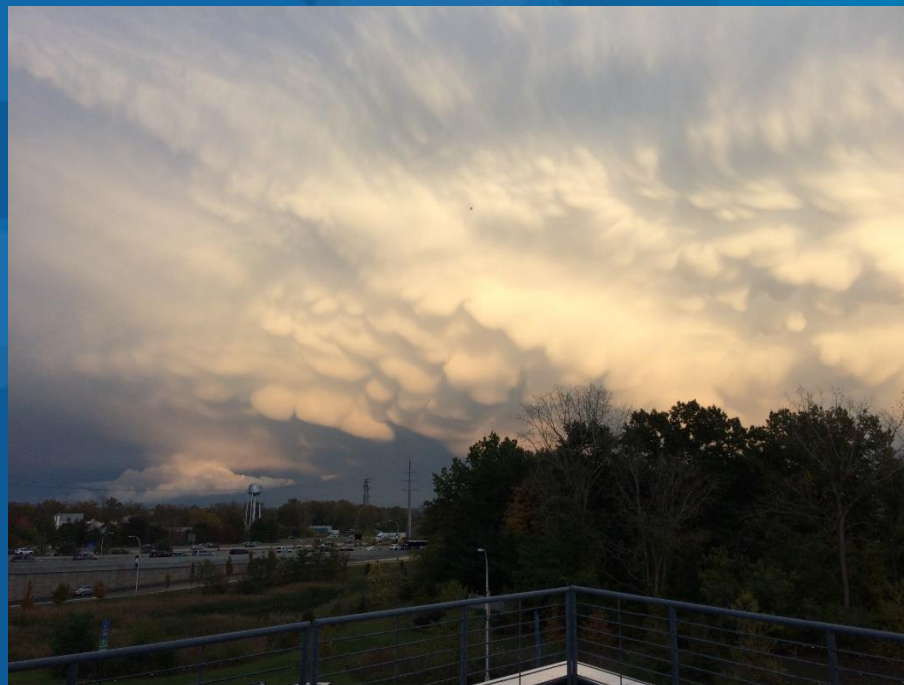


Photo courtesy of  
NWS Jackson, KY

**Mammatus – often associated  
with thunderstorms**



Mammatus outside NWS Albany office.  
Photo courtesy of NWS Meteorologist  
Christina Speciale





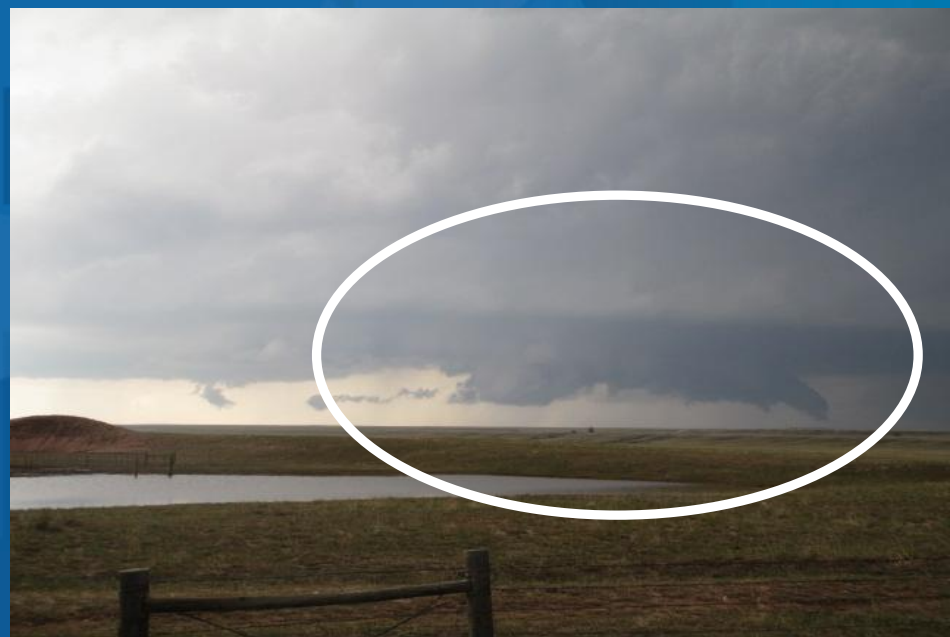
# Shelf Cloud vs Wall Cloud

Shelf Clouds occur with Squall Lines – straight line winds  
Updraft/downdraft interface

Wall Clouds rotate – sometimes precursor to tornado  
Isolated lowering of cloud base



Photo courtesy of  
<https://www.weather.gov/lmk/shelfcloudversusawallcloud>



Wall cloud near Cheyenne, WY.  
Photo courtesy of NWS Meteorologist Christina Speciale.



# Funnel Cloud vs Tornado

## Funnel Cloud



Must be  
Rotating

Not Touching the Ground

## Tornado



Must be  
Rotating

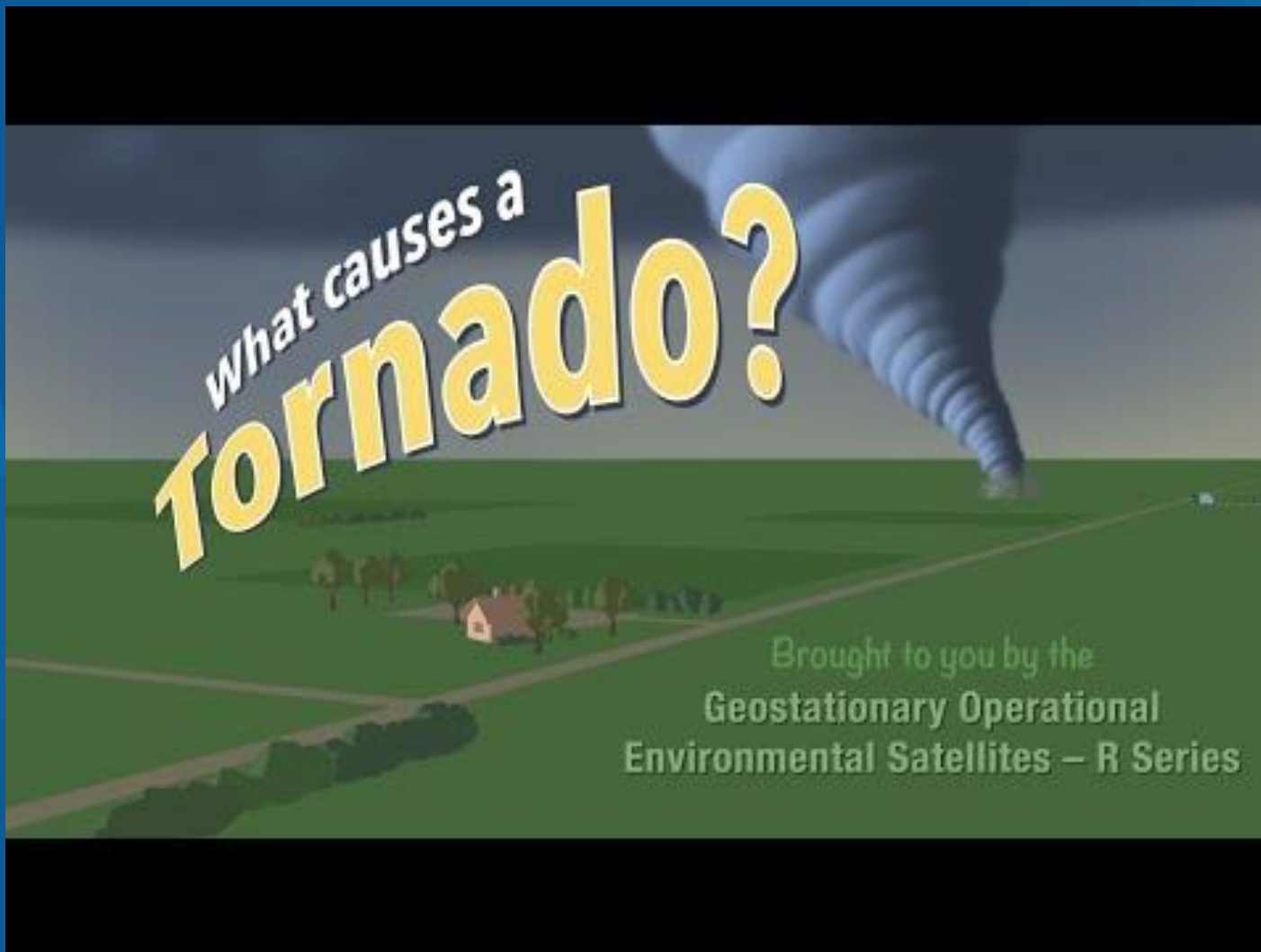
Debris  
Visible



In Contact with the Ground



# Tornado Formation



*Tornado Formation courtesy of NOAA SciJinks*





# Tornadoes

## TORNADO TERMINOLOGY



### Tornado Watch

Weather conditions could lead to the formation of severe storms and tornadoes. **BE PREPARED:** Know your safe location. Be ready to act quickly if a Warning is issued or you suspect a tornado is approaching.

### Tornado Warning

A tornado has been spotted or indicated by weather radar, meaning a tornado is occurring or expected soon. **TAKE ACTION:** There is imminent danger to life and property. Immediately seek refuge in the safest location possible.

### Tornado Emergency

An exceedingly rare situation with a severe threat to human life and catastrophic damage due to a confirmed violent tornado. **TAKE ACTION:** There is imminent danger to life and property. Immediately seek refuge in the safest location possible.

Enhanced Fujita Scale	
EF-0	65–85 mph winds
EF-1	86–110 mph
EF-2	111–135 mph
EF-3	136–165 mph
EF-4	166–200 mph
EF-5	>200 mph





# Tornadoes

## TORNADOES AND ROAD SAFETY

### WHAT TO DO

Get off the road. The best option is to drive to a designated shelter, basement or safe room.

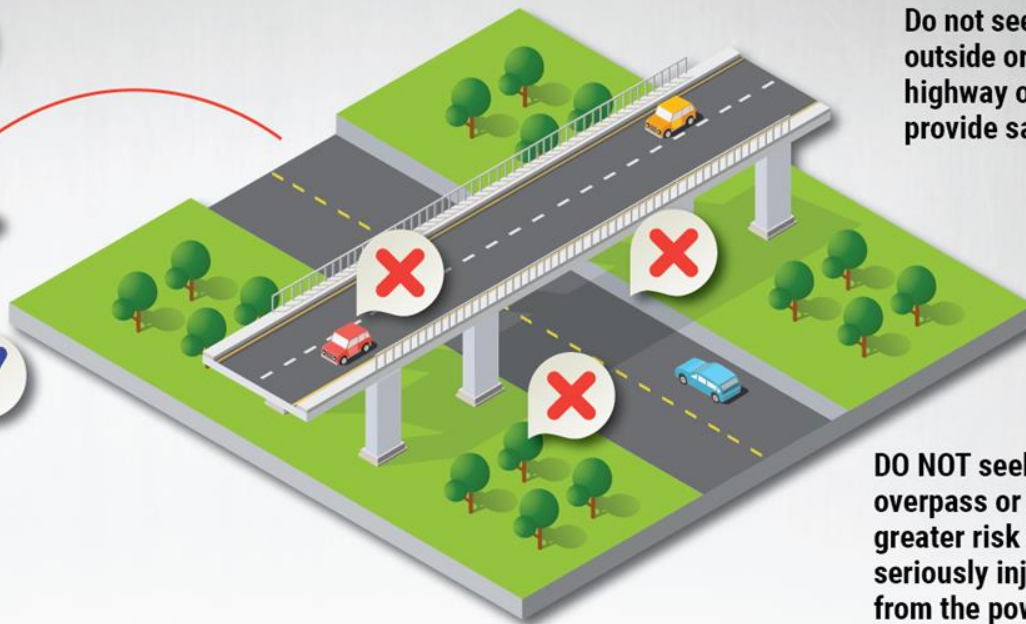


The next best option is a small, window-less room or hallway on the lowest floor of a sturdy building.



### WHAT NOT TO DO

Do not seek refuge in a vehicle, outside or under an overpass. A highway overpass does not provide safety from a tornado.



**DO NOT** seek shelter under an overpass or a tree. This puts you at greater risk of being killed or seriously injured by flying debris from the powerful tornadic winds.







# Tornado Sheltering

## Tornado Sheltering Guidelines

Seek the best available refuge area **immediately** when a Tornado Warning is issued.  
Your chance of surviving a tornado is excellent if you follow these guidelines.

### WORST OPTIONS

Mobile homes

Vehicles

Underneath a  
highway overpass

### BAD OPTIONS

Large open rooms  
like gymnasiums

Manufactured housing

### GOOD OPTIONS

Interior room  
of a well-constructed  
home or building

Basement

### BEST OPTIONS

Above or below ground  
Tornado Storm Shelter  
(NSSA/ICC 500 compliant)\*

Specifically-designed  
FEMA Safe Room\*

Find another option



Stay in place until all clear

PHOTO: U.S. Air Force -Tech. Sgt. Bradley C. Church

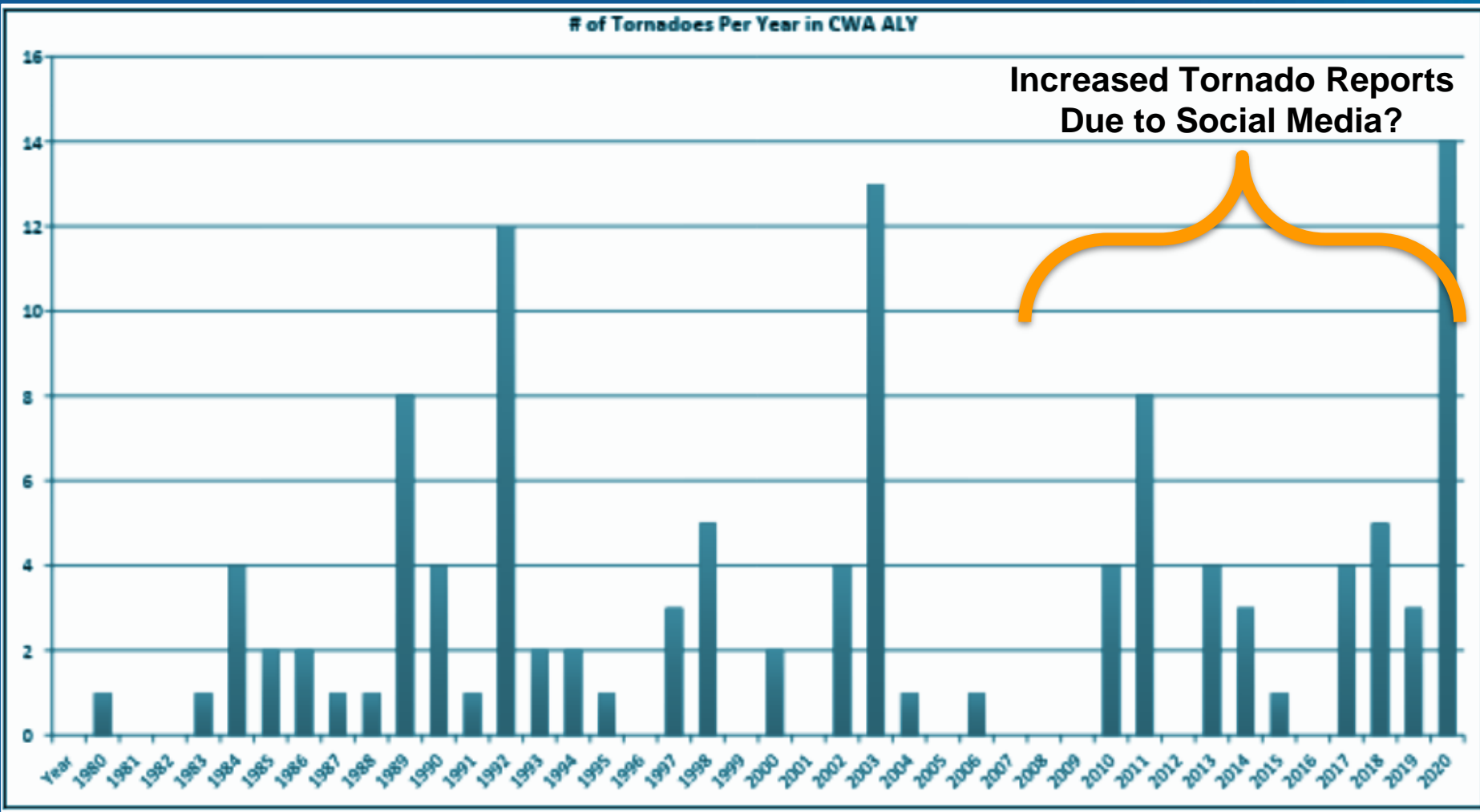
\*Recommended by FEMA







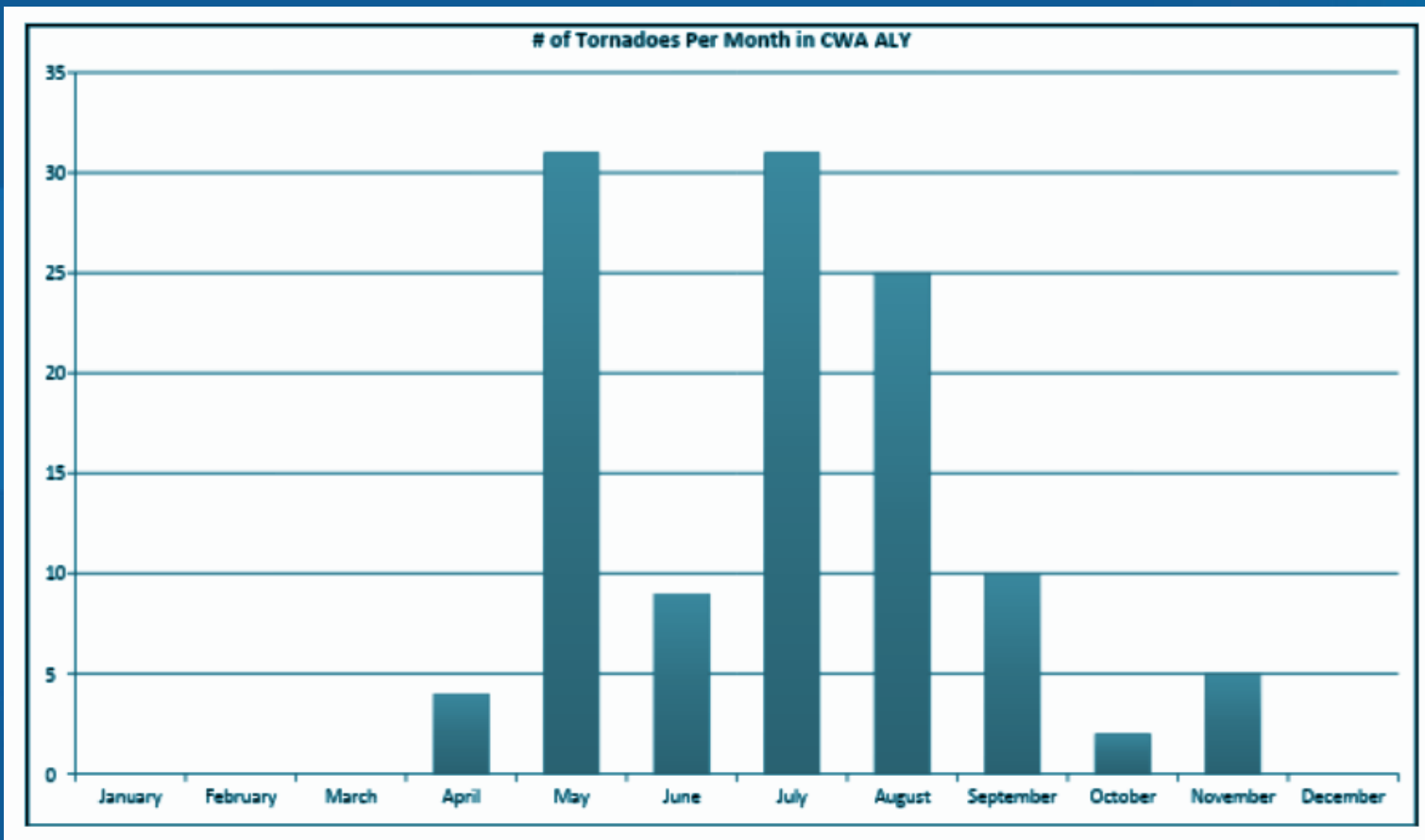
# Albany CWA Tornado Climatology (1980-2020)



The number of tornadoes per year from 1980 to 2020 in the NWS at Albany County Warning Area (CWA). A total of 117 tornadoes have occurred.



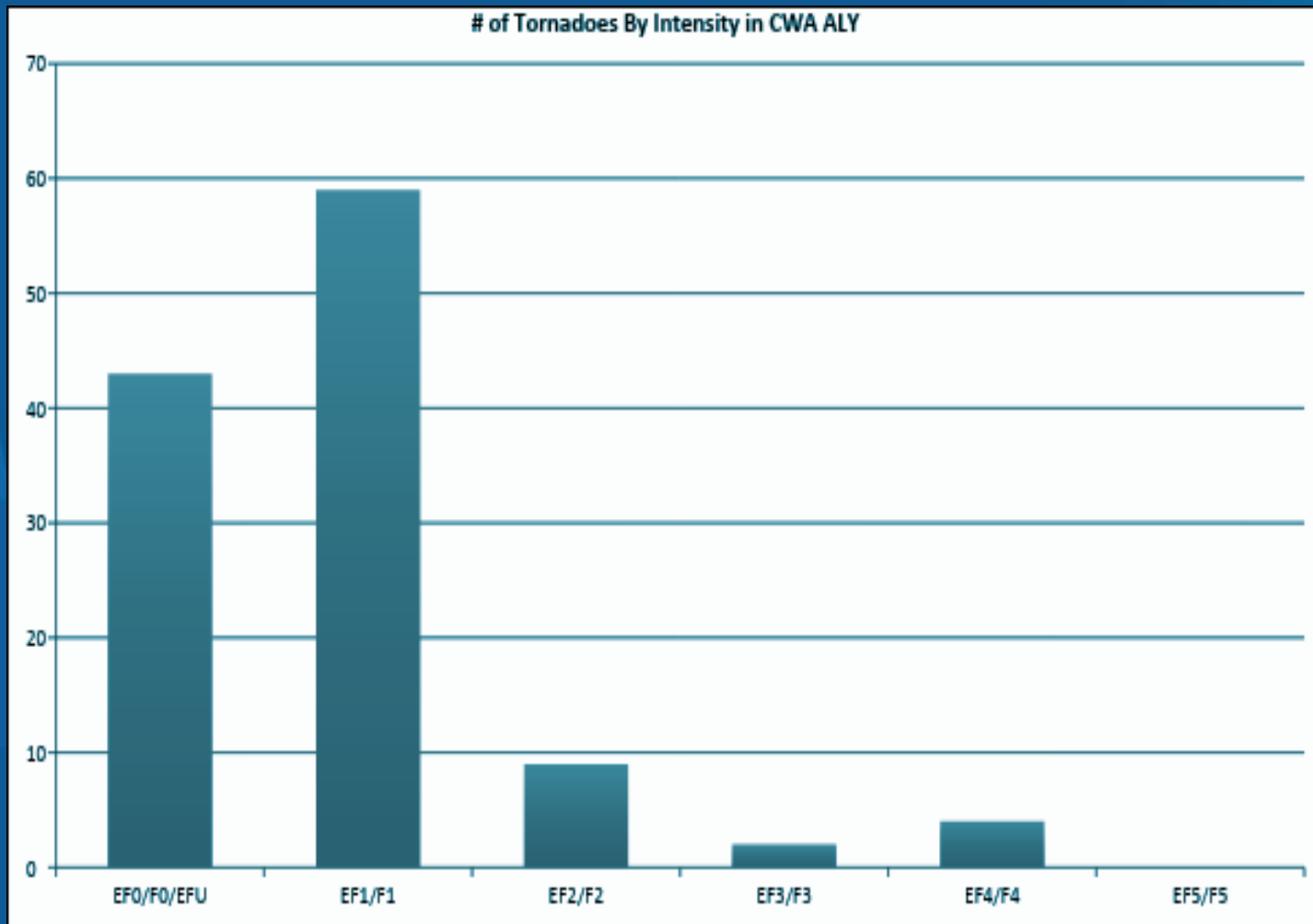
# Albany CWA Monthly Tornadoes (1980-2020)



The number of tornadoes by month from 1980 to 2020 in the CWA of the NWS at Albany which covers eastern NY and western New England. A total of 117 tornadoes have occurred with a maxima in the late spring and summer. May and July have the most tornadoes, though a steady increase has occurred in August over the past few years.



# Albany CWA Tornadoes by Intensity (1980-2020)



The # of tornadoes by intensity from 1980 to 2020 in the CWA at Albany. 101 of 117 tornadoes are EF-0 (65-85 mph) or EF-1 (86-110 mph).





# Dutchess County Tornado? - August 2, 2020





# Tornado – August 2, 2020

Public Information Statement  
National Weather Service Albany NY  
644 PM EDT Mon Aug 3 2020

...NWS DAMAGE SURVEY FOR 08/2/20 TORNADO EVENTS...

.Litchfield County #1...

Start Location...Sharon in Litchfield County, CT

End Location...Sharon in Litchfield County, CT

Date...August 2, 2020

Estimated Time...5:36 PM EDT

Maximum EF-Scale Rating...EF0

Estimated Maximum Wind Speed...80 mph

Maximum Path Width...30 yards

Path Length...0.25 mile

Beginning Lat/Lon...41.86/-73.50

Ending Lat/Lon...41.87/-73.50

\* Fatalities...0

\* Injuries...0

...Summary...

The National Weather Service storm survey team confirms an EF0 tornado in Sharon, CT. The tornado struck a nursery along the New York/Connecticut border. Large trees were uprooted. The metal infrastructure of greenhouses was destroyed. Eyewitnesses reported garden supplies rotating in the air above the nursery. Down the road from the nursery, additional uprooted trees were observed.

.Litchfield #2...

Start Location...Falls Village in Litchfield County, CT

End Location...Falls Village in Litchfield County, CT

Date...August 2, 2020

Estimated Time...6:05 pm EDT to 6:10 PM EDT

Maximum EF-Scale Rating...EF1

Estimated Maximum Wind Speed...90 mph

Maximum Path Width...100 yards

Path Length...1.7 miles

Beginning Lat/Lon...41.93/-73.37

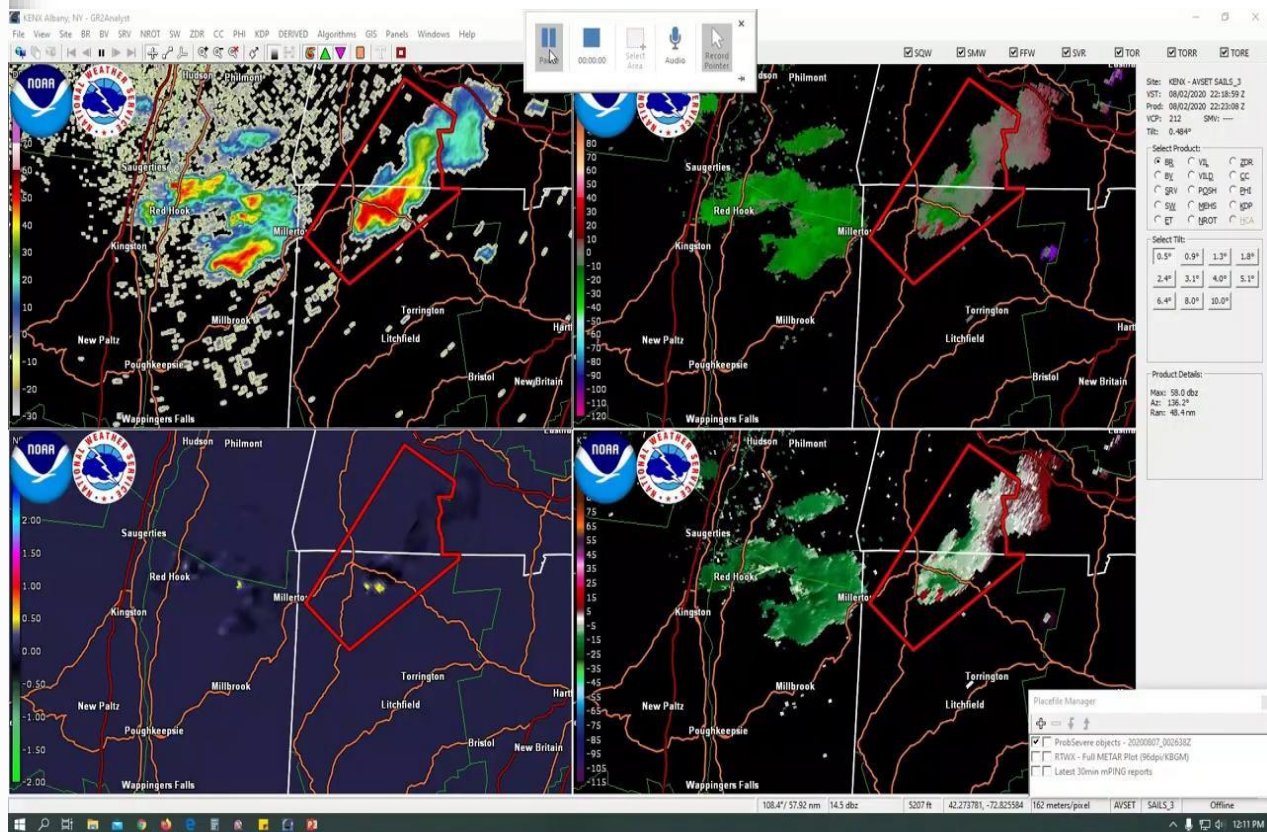
Ending Lat/Lon...41.94/-73.34

\* Fatalities...0

\* Injuries...0

...Summary...

The National Weather Service storm survey team confirms an EF1 tornado in Falls Village, CT. The survey team observed many snapped and uprooted trees along Lime Rock Station Road near River Road. Additional downed trees were noted along the path of the tornado.



## Enhanced Fujita Scale

EF-0	65–85 mph winds
EF-1	86–110 mph
EF-2	111–135 mph
EF-3	136–165 mph
EF-4	166–200 mph
EF-5	>200 mph



# How to report: Who, What, When, Where

## **Who** Are You?

*"Hello, I am a trained spotter."*

## **What** Are you Reporting?

Be specific if possible!

*"I would like to report two uprooted pine trees, 6" in diameter and healthy."*



245 PM



Intersection of Main Street and Route 123

## **When** Did the Event Occur?

*"This occurred at 2:45PM."*

## **Where** Did the Event Occur?

*"At the intersection of Main Street and Route 123."*





# What to report: T-storms



**Diameter/height of tree**

**Snapped/uprooted?**

**Live/dead tree?**

**Did it do additional damage (e.g., fell on a car or house)?**

**How many trees/limbs?**

**Trees fell in similar or different directions?**



**Hail size compared to a common object  
OR**

**Hail size measured along long axis**

**How long did it occur?**

**Did it do any damage (e.g., dented cars, destroyed crops)**



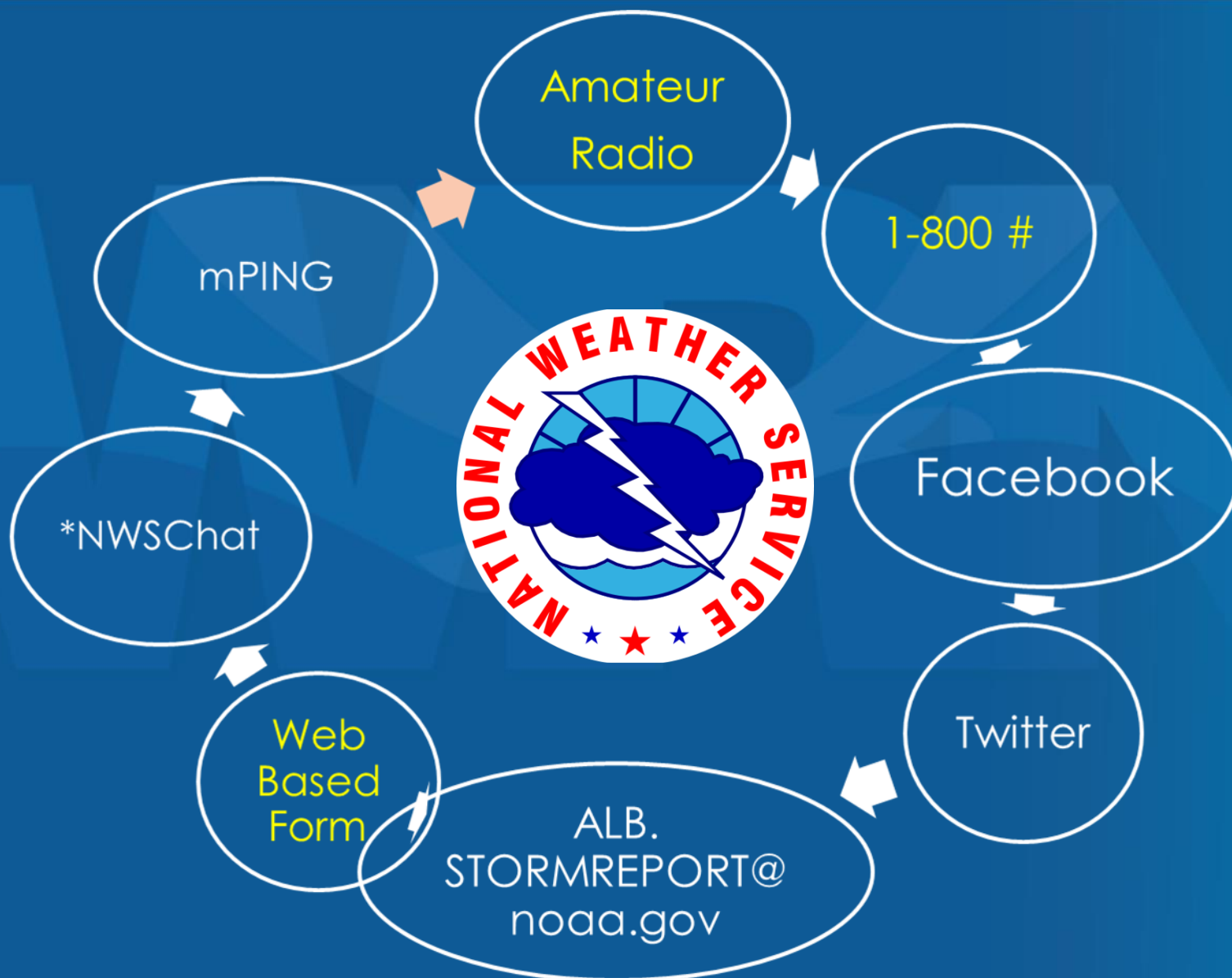
**Rotating wall cloud, funnel cloud, or tornado on the ground producing debris?**

**What is your location, and which direction are you facing?**

**What is the extent of the damage (if you can safely assess)**

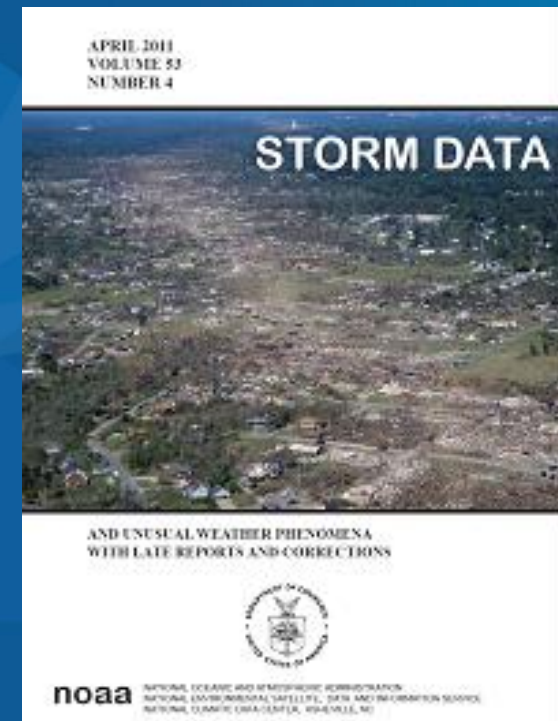


# How to Relay Your Report





# FEMA and Your Data







# FEMA and your Report...

## CONNECTICUT, Northwest

### **Litchfield County**

#### **Kent**

18

2255EST

0

0

Thunderstorm Wind (50EG)

Several trees were reported down in Kent.

May 18 was the second straight day of temperatures approaching or exceeding 90 degrees in Northwest Connecticut. The hot airmass, despite not being overly humid, provided an unstable environment conducive for thunderstorm development. Thunderstorms began to form in the early afternoon over western New York along a lake breeze boundary. These storms pushed into Northwest Connecticut shortly before midnight, resulting in reports of wind damage and scattered power outages. Note: The estimated wind gust of 50 knots is equivalent to 58 mph.

### **Litchfield County**

#### **1 SE Park Lane**

31

1848EST

0

0

Hail (1.00)

### **Litchfield County**

#### **2 WSW Judds Bridge**

31

1850EST

0

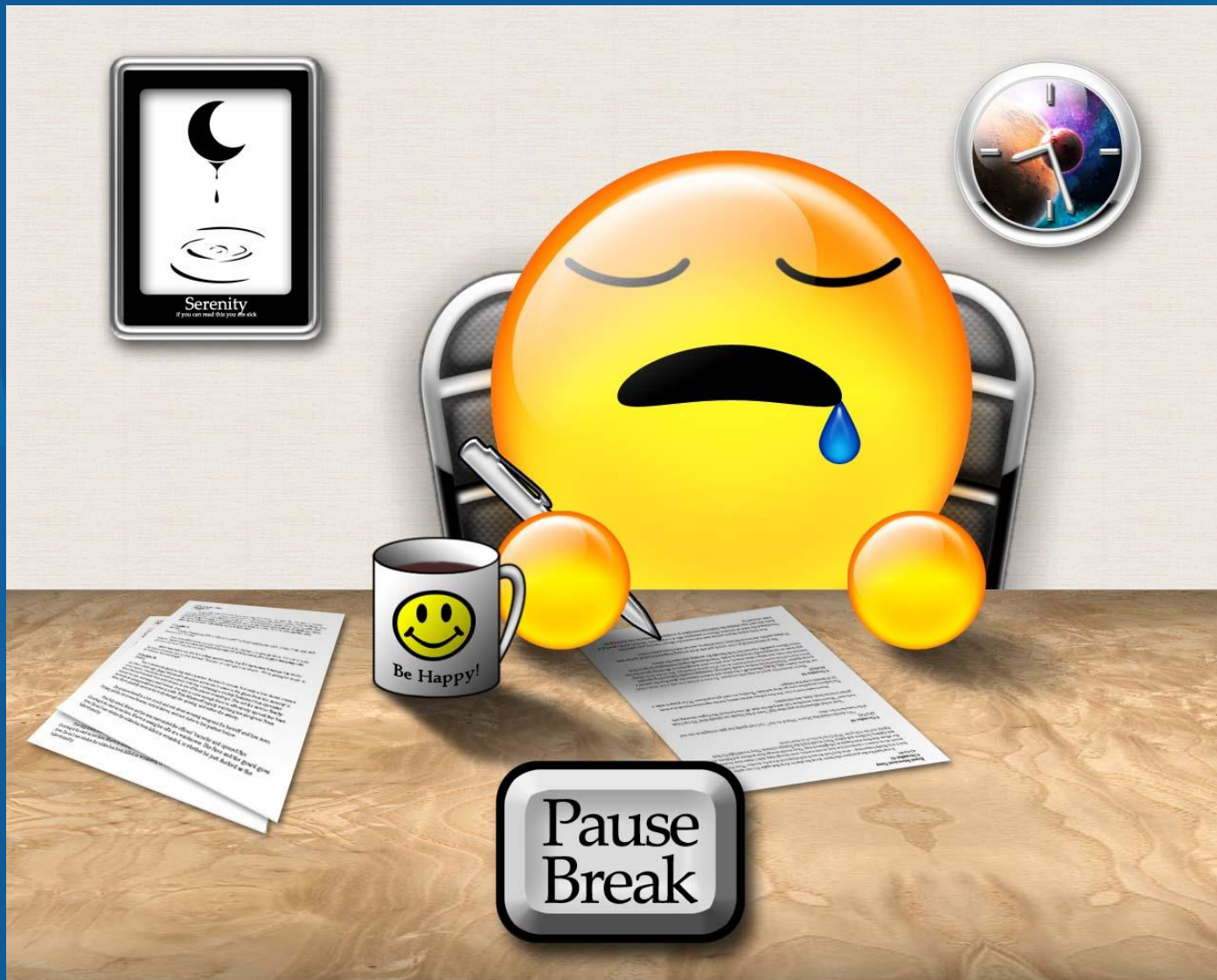
0

Hail (1.00)

A severe thunderstorm impacted northwestern Connecticut on May 31, 2017 as a cold upper-level disturbance interacted with a moderately unstable airmass. The supercell thunderstorm had earlier produced a tornado and large hail in the mid-Hudson Valley of New York, and continued producing large hail as it entered Connecticut. Hail up to the size of quarters was reported.



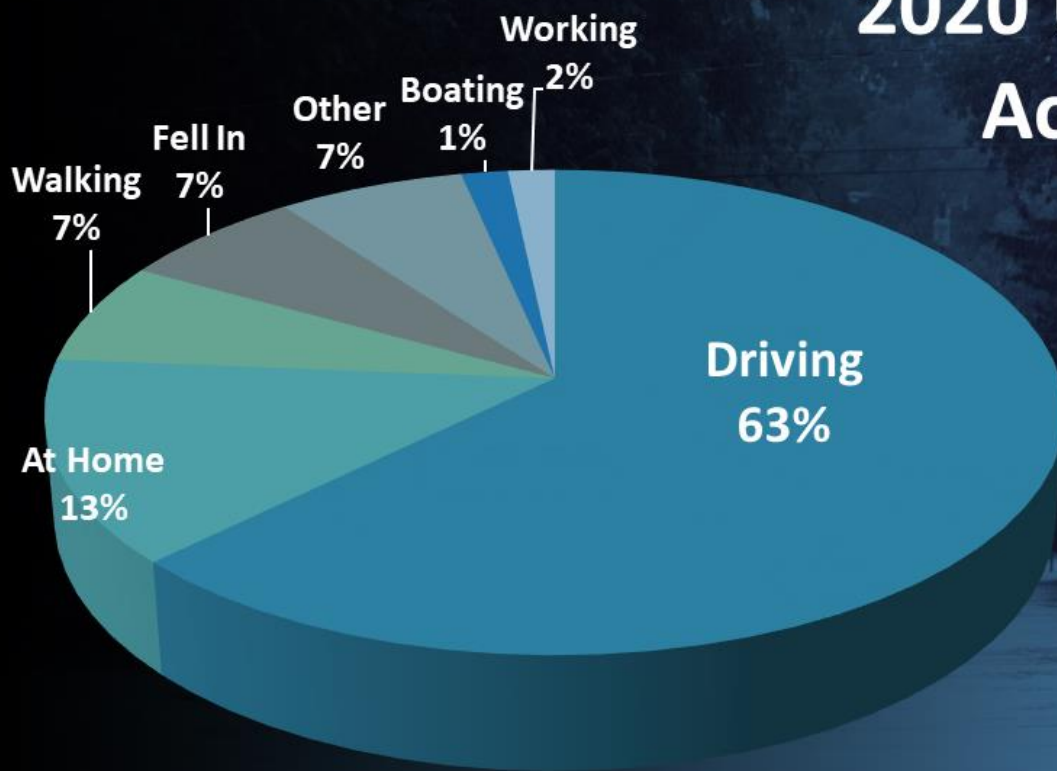
# BREAK TIME





# 2020 Flood Statistics

## 2020 U.S. Flood Fatalities Activity of Victims



Source: NOAA/National Weather Service







# Flood vs. Flash Flood

## Flood

-Any high flow, overflow, or inundation by water which causes or threatens damage



## Flash Flood

-A *rapid and extreme* flow of high water into a normally dry area, or a rapid water level rise in a stream or creek.  
-Requires immediate action to protect life and property!





# Flooding

## Street/Poor Drainage Flooding



Usually dissipates shortly after heavy rain ends

## River Flooding



Usually continues until after river crests





# Flash Flooding



Don't underestimate the power of water!



6 inches of fast-moving water can knock over and carry away an adult.

12 inches of fast-moving water can carry away a small car.

18-24 inches of fast-moving water can carry away most large SUVs, vans and trucks.



It rained one  
afternoon!

Neighborhood streets





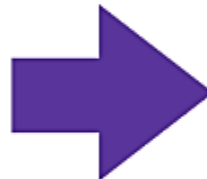
# Impact-Based Warnings

## NEW FLASH FLOOD WARNING FORMAT

Impact-based warnings contain hazard, source, and impact information, and additional damage threat tags. On the right is a sample impact-based warning.

### Hazard, Source, and Impact Information

Each Flash Flood Warning (FFW) will contain individual lines that clearly state hazard, source, and impact information.



### Tags

Tags will appear at the bottom of FFWs and in Flash Flood Statements (FFSs), which provide supplemental information on active FFWs.



```
...FLASH FLOOD EMERGENCY FOR LIFE-THREATENING CATASTROPHIC FLOODING...  
The National Weather Service in League City has issued a  
  
* Flash Flood Warning for...  
  Northeastern Austin County in southeastern Texas...  
  
* Until 715 PM CDT.  
  
* At 119 PM CDT, Doppler radar indicated continued bands of rain and  
  thunderstorms across the area. Emergency management reported ongoing  
  water rescues. Rainfall rates of 2 to 3 inches per hour will persist  
  across the warned area.  
  
This is a FLASH FLOOD EMERGENCY FOR LIFE-THREATENING CATASTROPHIC  
FLOODING. This is a PARTICULARLY DANGEROUS SITUATION. SEEK HIGHER  
GROUND NOW!  
  
HAZARD...Life-threatening flash flooding caused by thunderstorms.  
  
SOURCE...Emergency management.  
  
IMPACT...Widespread, life-threatening flooding will continue and  
  perhaps worsen at some locations. Historic flooding is  
  expected to continue in the Houston metropolitan area through  
  the foreseeable future.  
  
* Some locations that will experience flooding include...  
  Pasadena, Pearland, League City, and Humble.  
  
PRECAUTIONARY/PREPAREDNESS ACTIONS...  
  
Move to higher ground now. This is an extremely dangerous and  
life-threatening situation. Do not attempt to travel unless you are  
fleeing an area subject to flooding or under an evacuation order.  
  
$$  
  
LAT...LCN 2904 9515 2905 9527 2932 9536 2916 9543  
  
FLASH FLOOD...OBSERVED  
FLASH FLOOD DAMAGE THREAT...CATASTROPHIC  
EXPECTED RAINFALL...2-3 INCHES PER HOUR
```



# River Flooding



Dolgeville, NY  
October 31, 2019 - November 1, 2019





# October 31-November 1, 2019

## River flood damage in Herkimer County



1 fatality in Newport, Herkimer County due to flash flood (person swept away in flood waters)







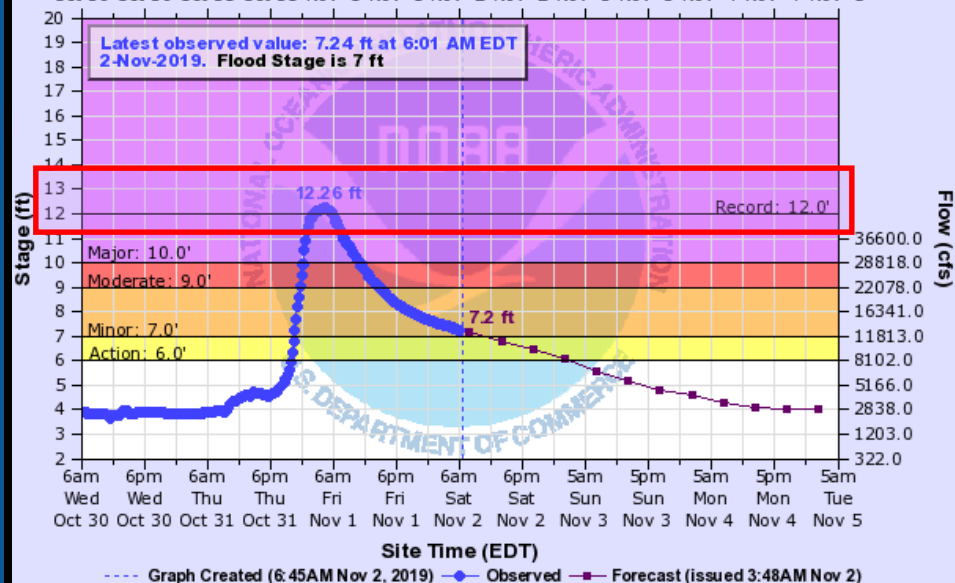
# River & Stream Record Flooding

## SACANDAGA RIVER AT HOPE

Universal Time (UTC)

10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z  
Oct 30 Oct 30 Oct 31 Oct 31 Nov 1 Nov 1 Nov 2 Nov 2 Nov 3 Nov 3 Nov 4 Nov 4 Nov 5

Latest observed value: 7.24 ft at 6:01 AM EDT  
2-Nov-2019. Flood Stage is 7 ft



## Sacandaga River at Hope

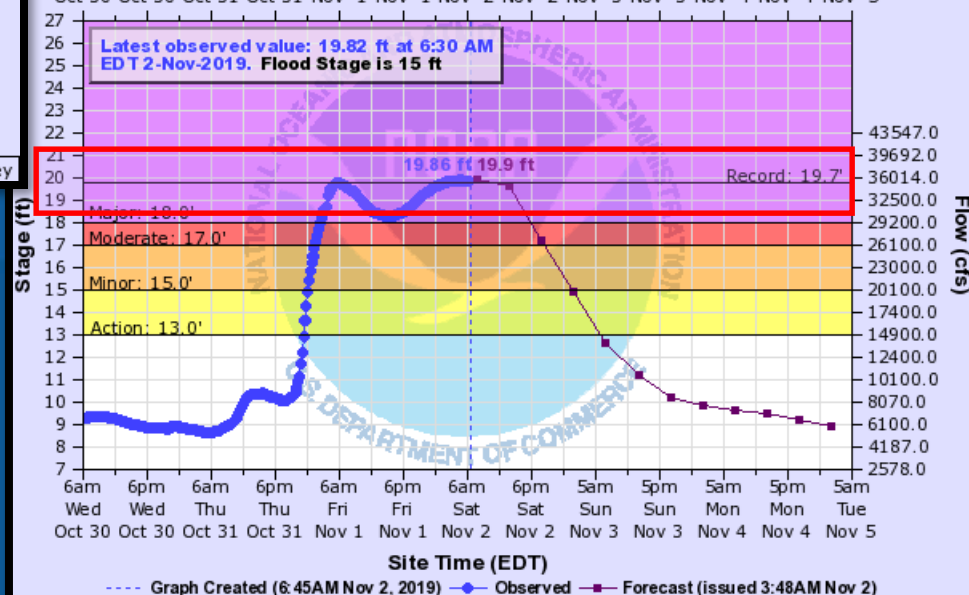
## Mohawk River at Little Falls

## MOHAWK RIVER AT LITTLE FALLS

Universal Time (UTC)

10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z 22Z 10Z  
Oct 30 Oct 30 Oct 31 Oct 31 Nov 1 Nov 1 Nov 2 Nov 2 Nov 3 Nov 3 Nov 4 Nov 4 Nov 5

Latest observed value: 19.82 ft at 6:30 AM  
EDT 2-Nov-2019. Flood Stage is 15 ft

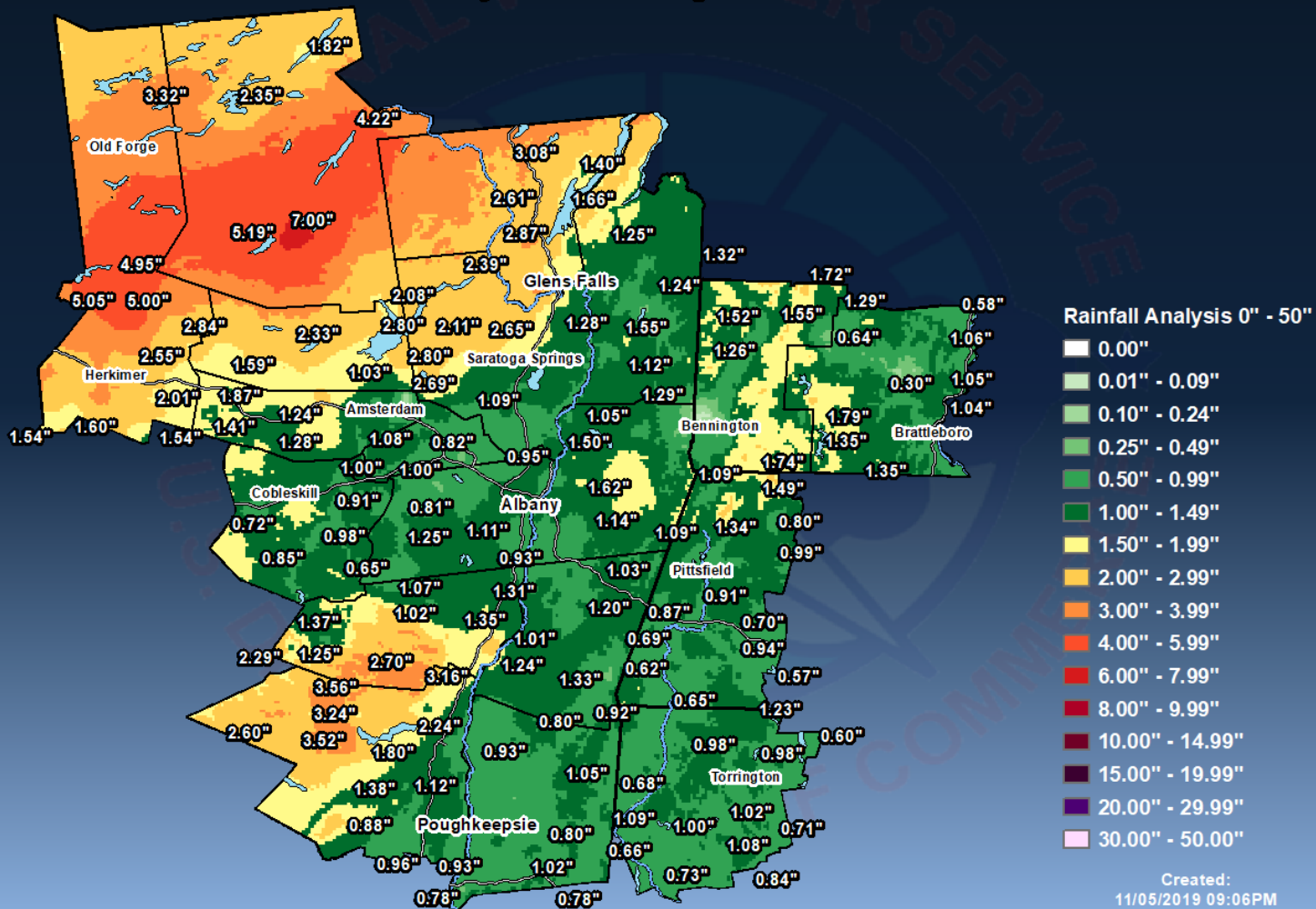




# October 31-November 1, 2019

## National Weather Service Albany New York Rainfall Analysis 10/31/2019 08:00AM to 11/01/2019 08:00AM

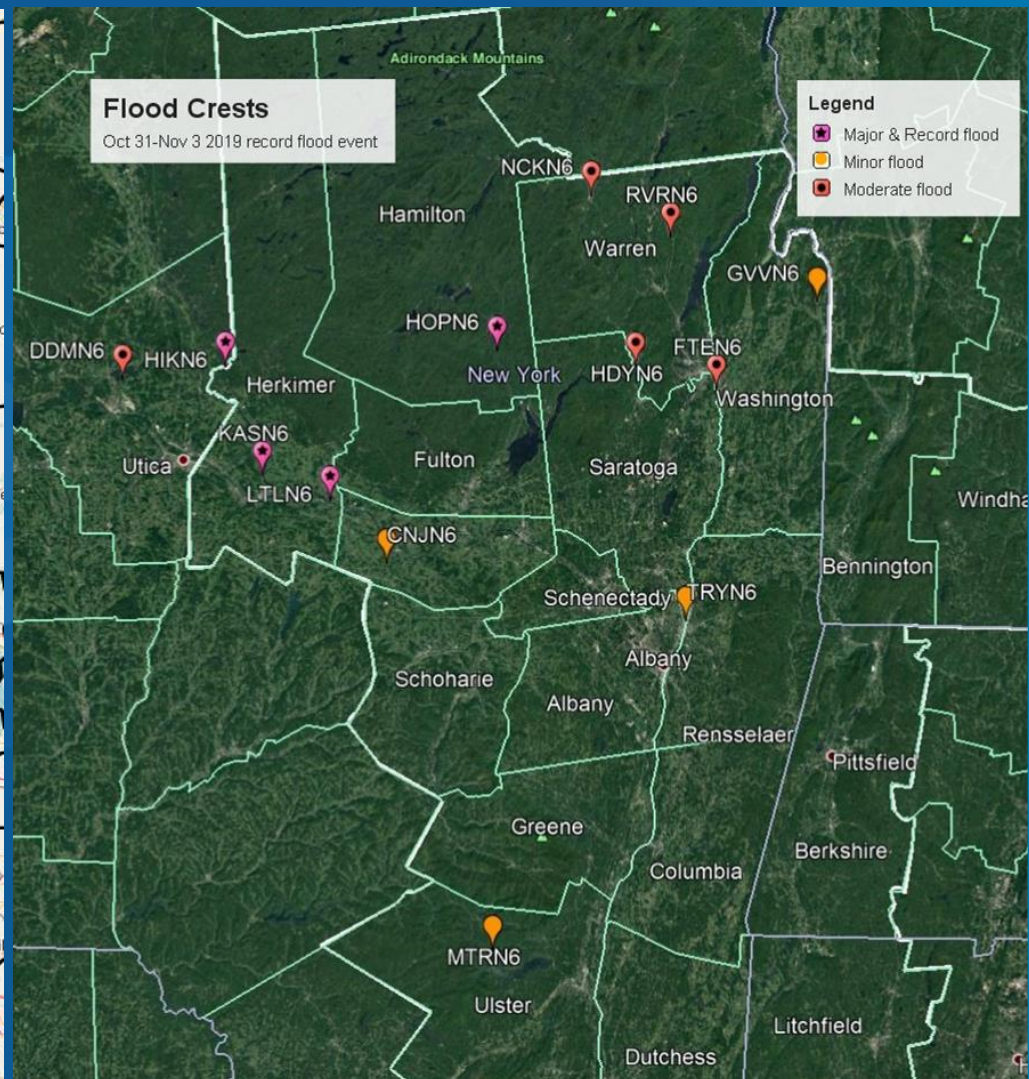
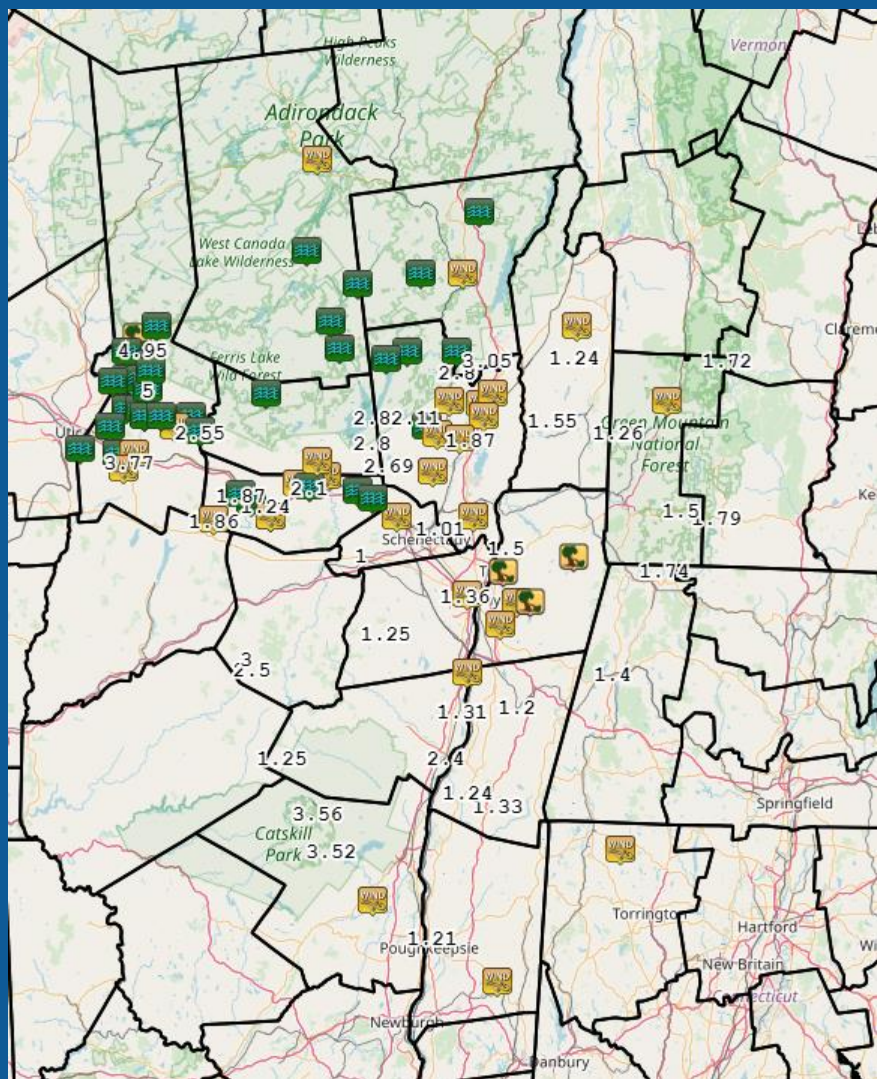
Analysis Data Source: Regional Observations







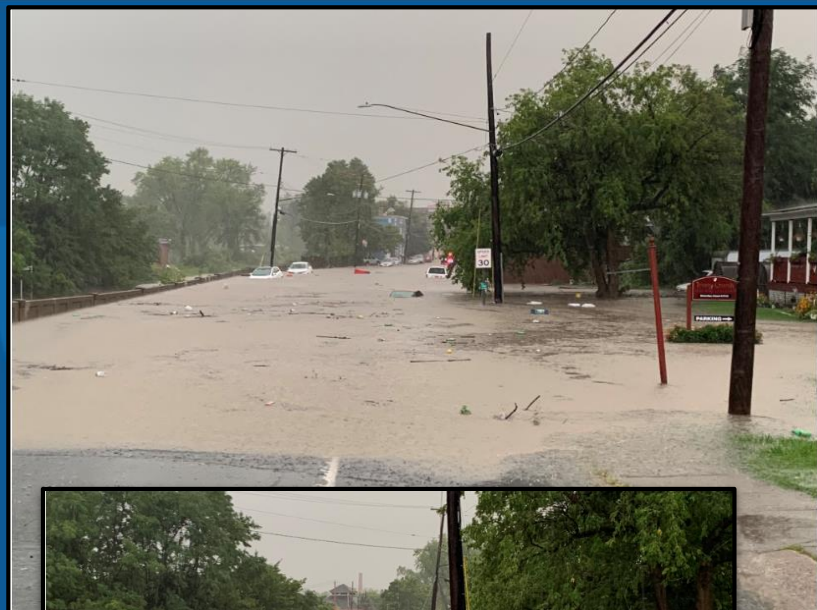
# Oct 31- Nov 1, 2019 Damage Reports







# August 24, 2020 Whitehall, NY Flash Flood



Route 22 Flooded with cars submerged



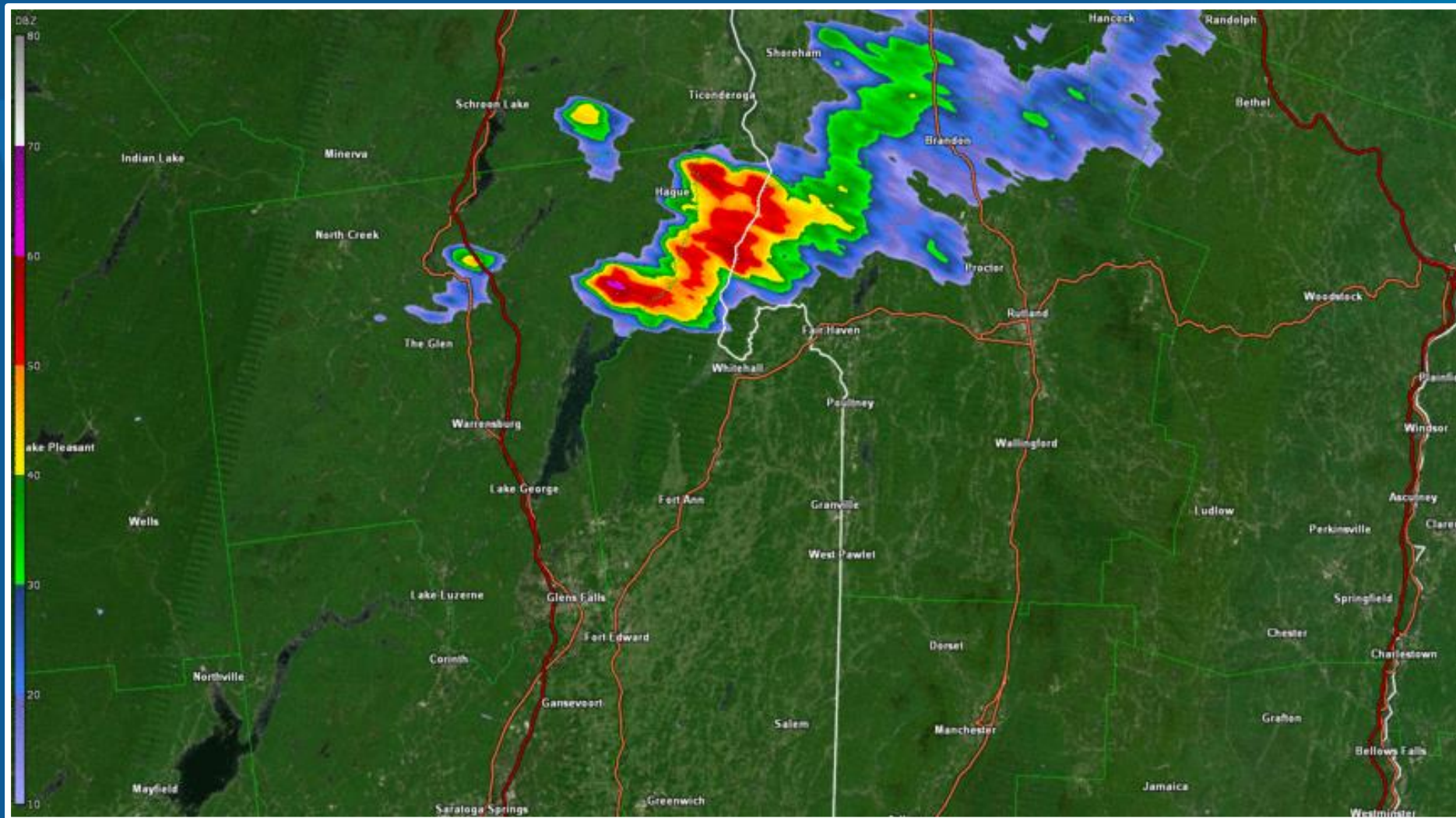
Whitehall Central School Damage

Photos Courtesy: Tim Hardy Deputy Director Washington County Public Safety



# August 24, 2020 Whitehall Flash Flood

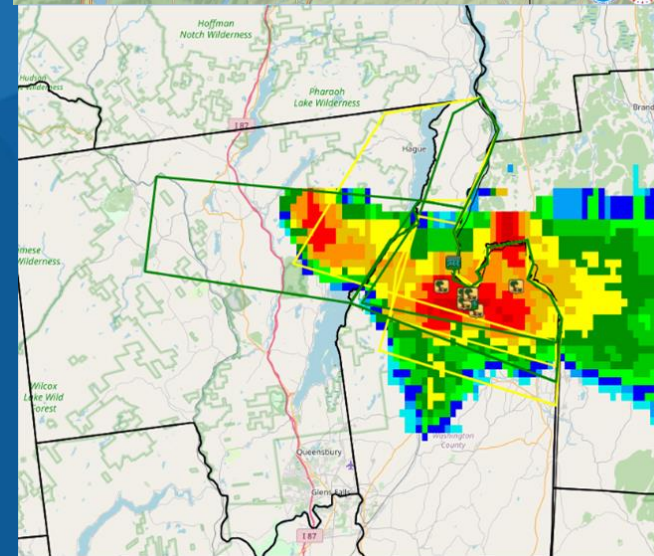
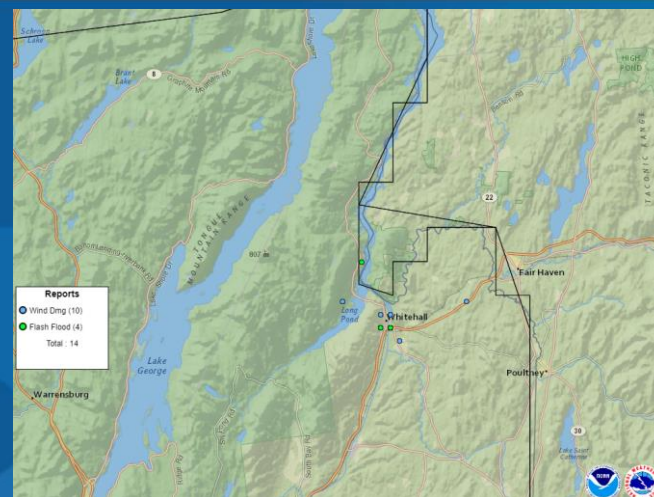
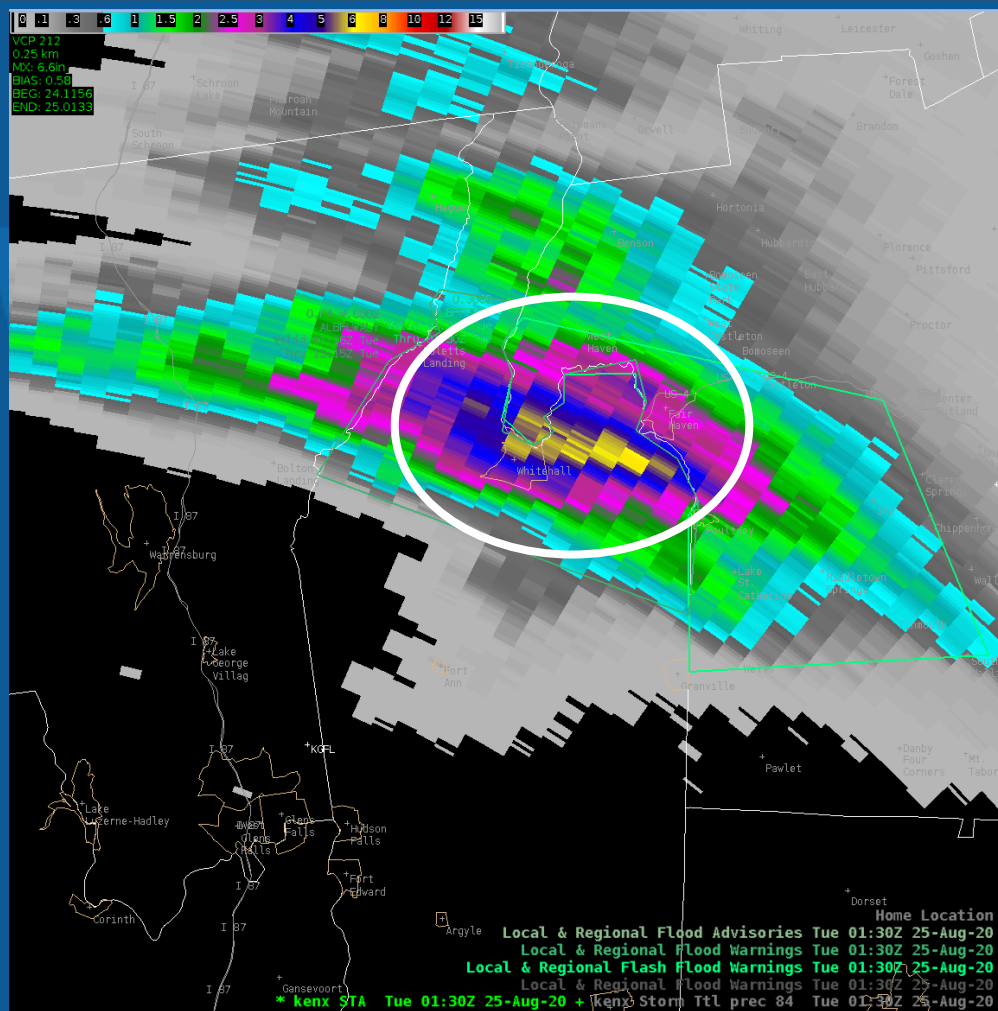
24 August 2020 KENX Radar Loop from approximately 4 pm to 8 pm EDT







# August 24, 2020 Whitehall, NY Flash Flood



Radar estimates were as high as 6.60". 10 Wind damage and 5 flash flood reports occurred, as the severe thunderstorms trained for 2-4 hours. 5.85" of rainfall was reported from the Whitehall Coop Observer!!!

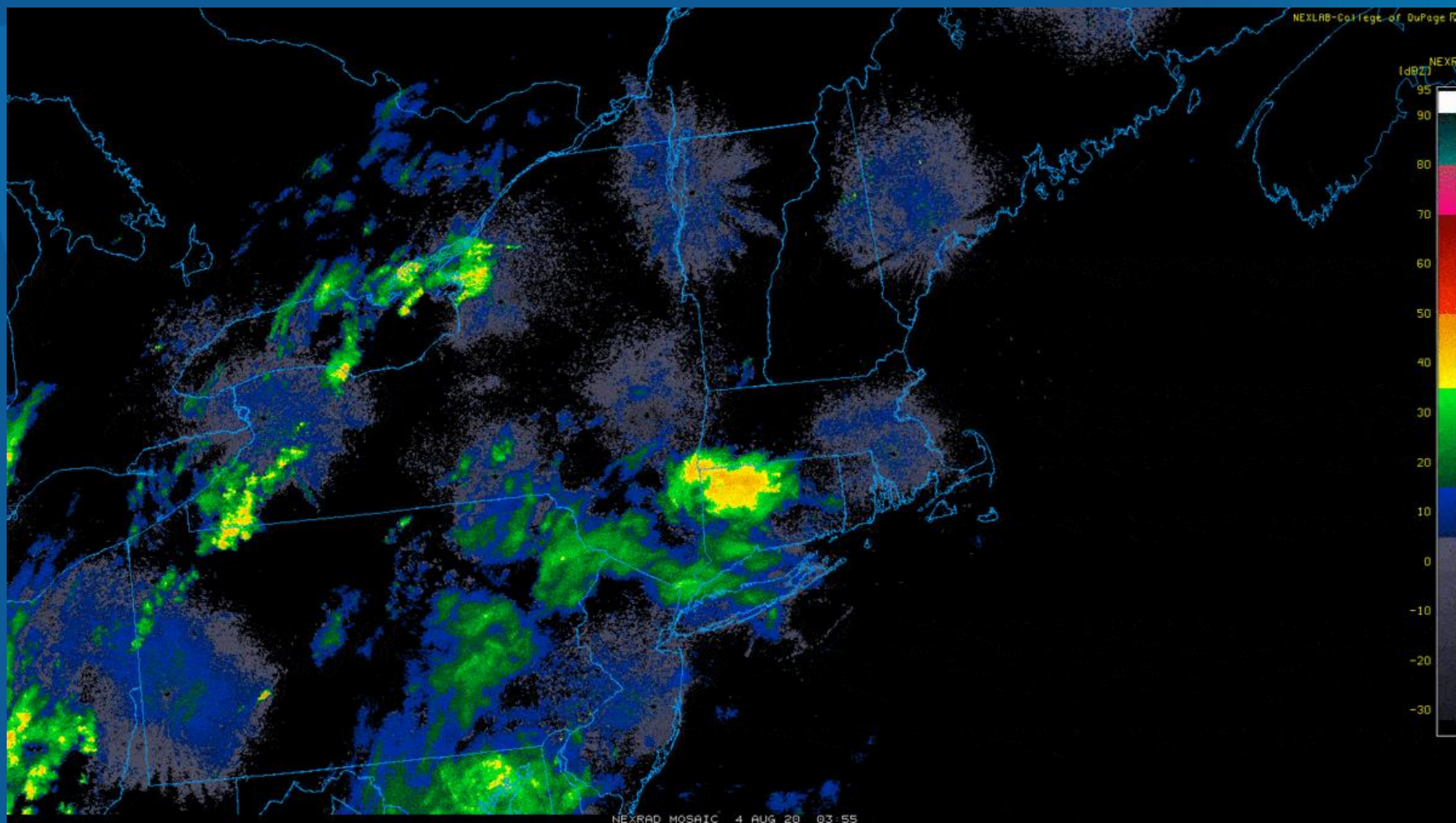




# Tropical Storm Impacts

## Tropical Storm Isaias Radar Loop

12 AM – 8 PM EDT 4 August 2020



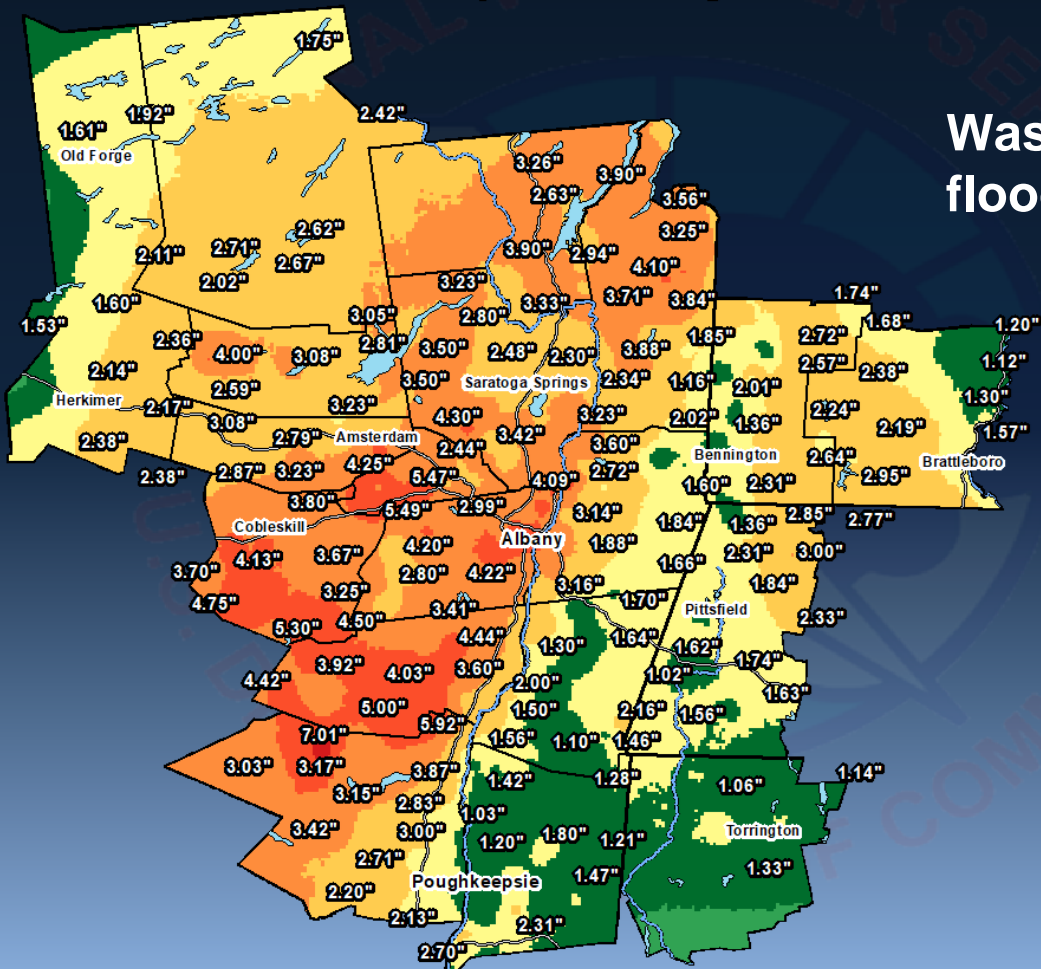


# Tropical Storm Isaias

## National Weather Service Albany New York

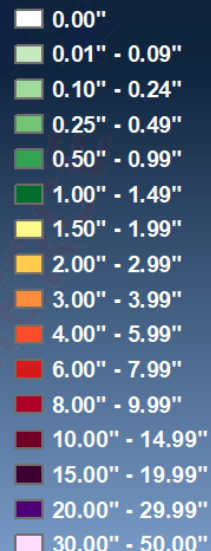
### Storm Total Rainfall Amounts

Analysis Data Source: Regional Observations



Was there river  
flooding?

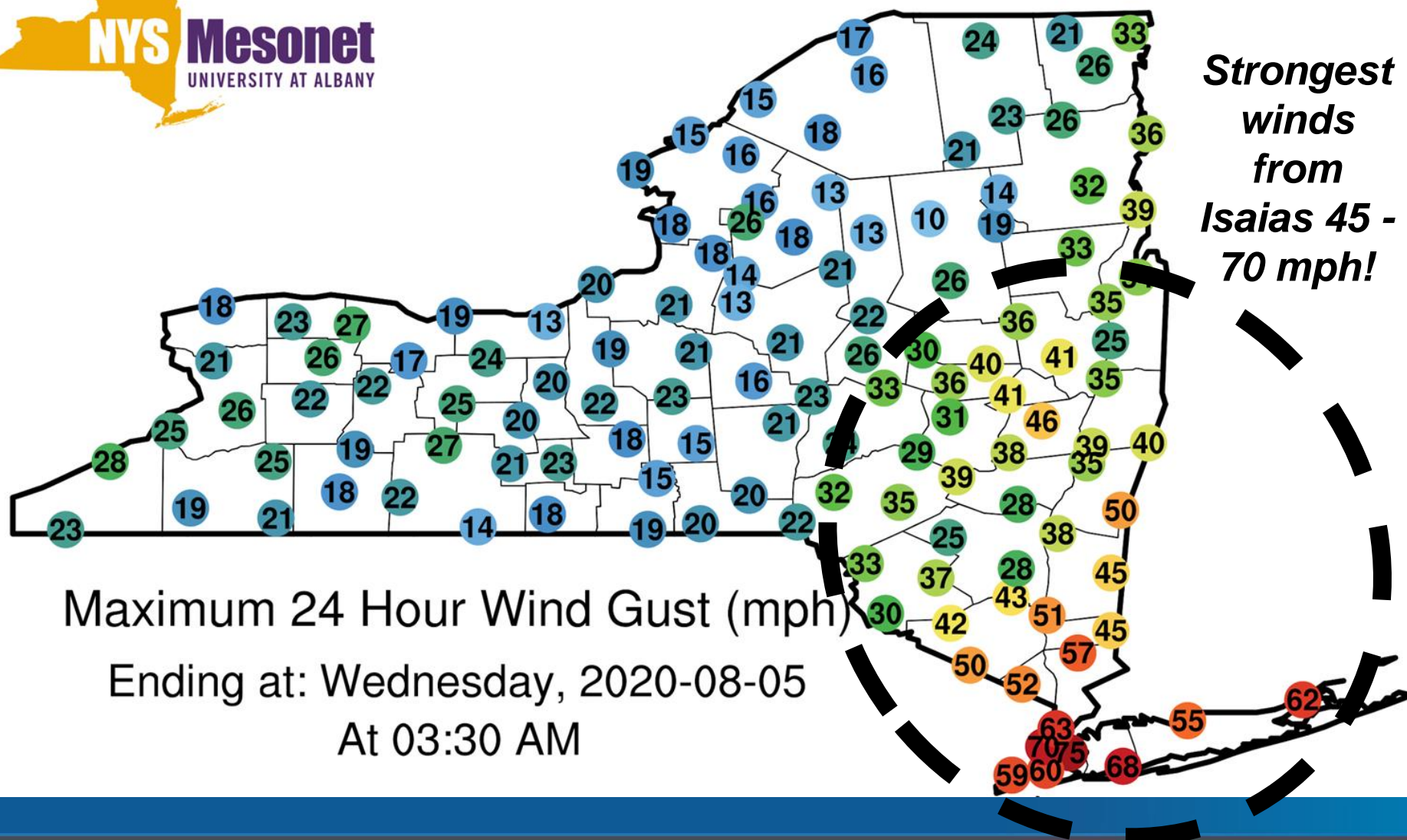
#### Rainfall Analysis 0" - 50"



Created:  
08/05/2020 02:55PM



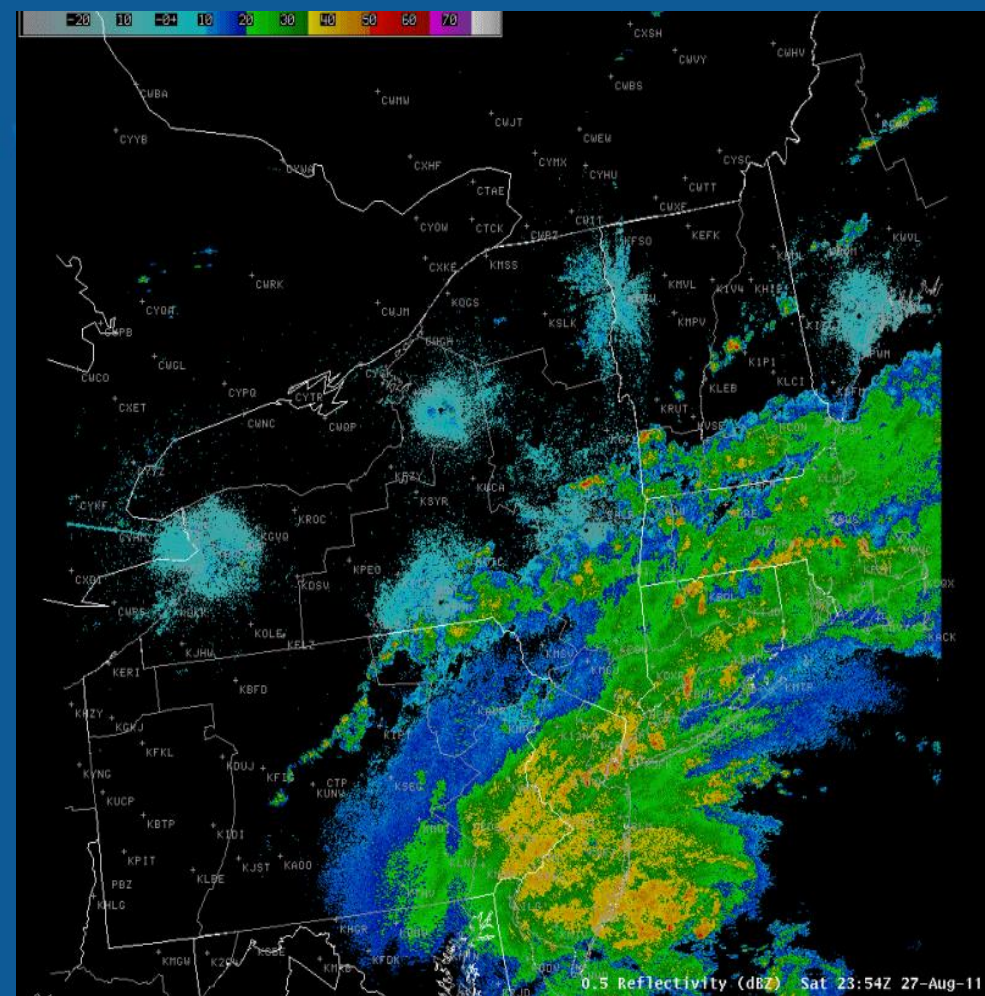
# Tropical Storm Isaias







# Tropical Storm Irene - August 2011



VT Route 4 After Irene



# Flooding – What to Report?

- Depth of water?
- Is water flowing/rising or standing?
- Are roads closed or impassible?
- Usual flood-prone spot, or not?
- Water flowing into buildings?
- Damage from flooding?



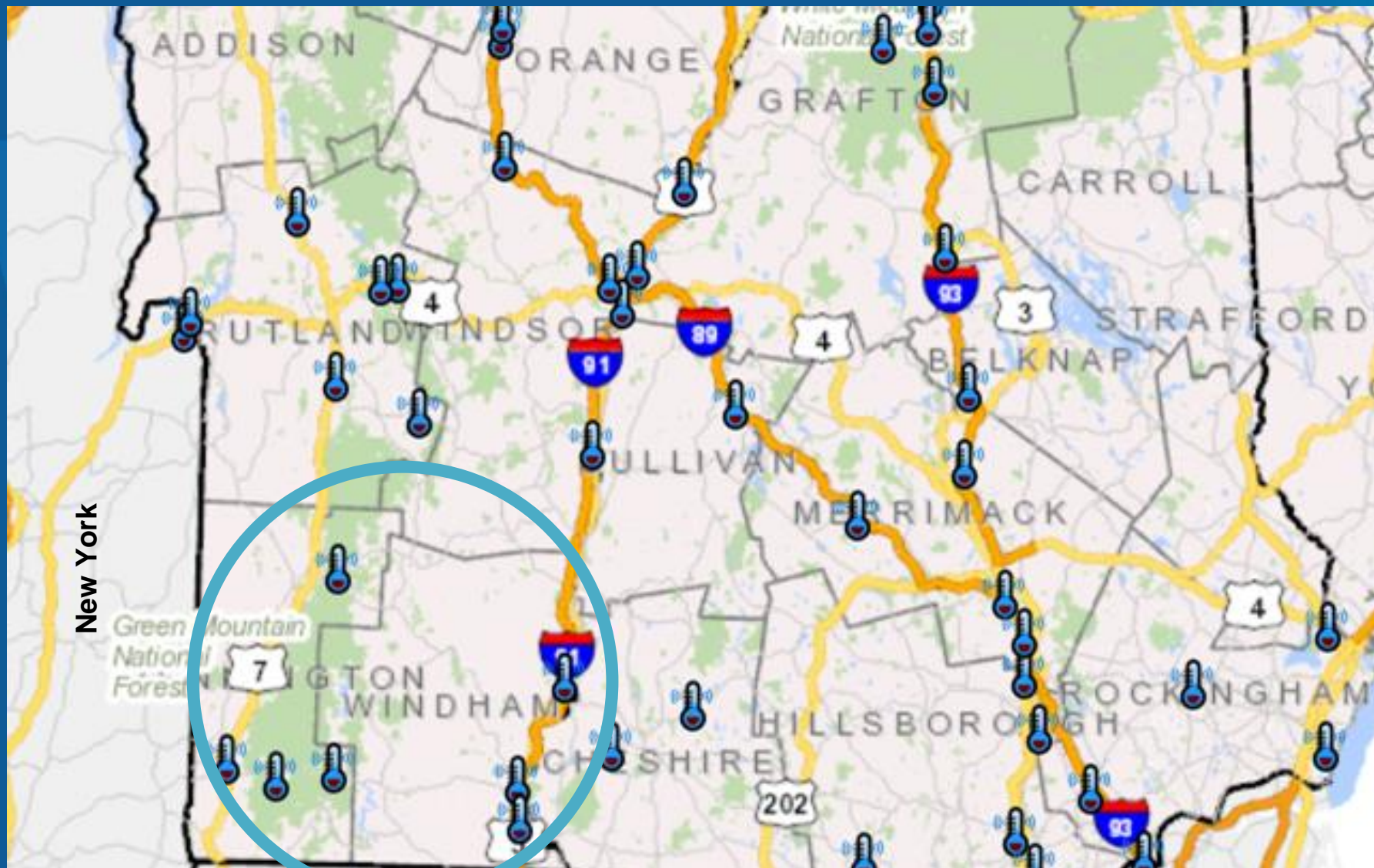








# Vermont VTRANS - Mesonet





# Join CoCoRaHS!

[www.weather.gov/alb/cocorahsalban](http://www.weather.gov/alb/cocorahsalban)

## Wanted: Volunteer Rainfall Observers!

Join CoCoRaHS (Community Collaborative Rain, Hail and Snow Network)



### What is CoCoRaHS?

CoCoRaHS is a national grassroots, non-profit, community-based, high-density precipitation network ...

... made up of volunteers of all ages and backgrounds



... who take daily measurements of precipitation right in their own backyards

### Why is the CoCoRaHS data so useful?



Precipitation is important and highly variable



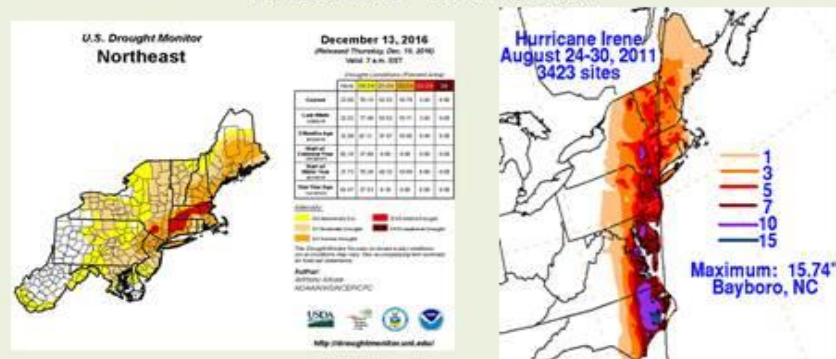
Data sources are few and rain gauges are far apart

CoCoRaHS data is useful for daily rainfall totals as well as the major rainfall events:

Improves Knowledge During Drought & Excessive Wet Periods



[www.CoCoRaHS.org](http://www.CoCoRaHS.org)

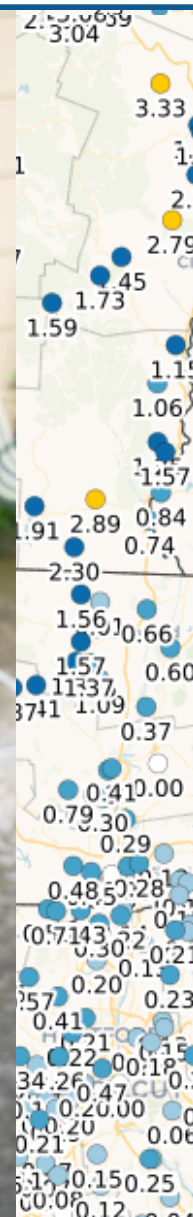
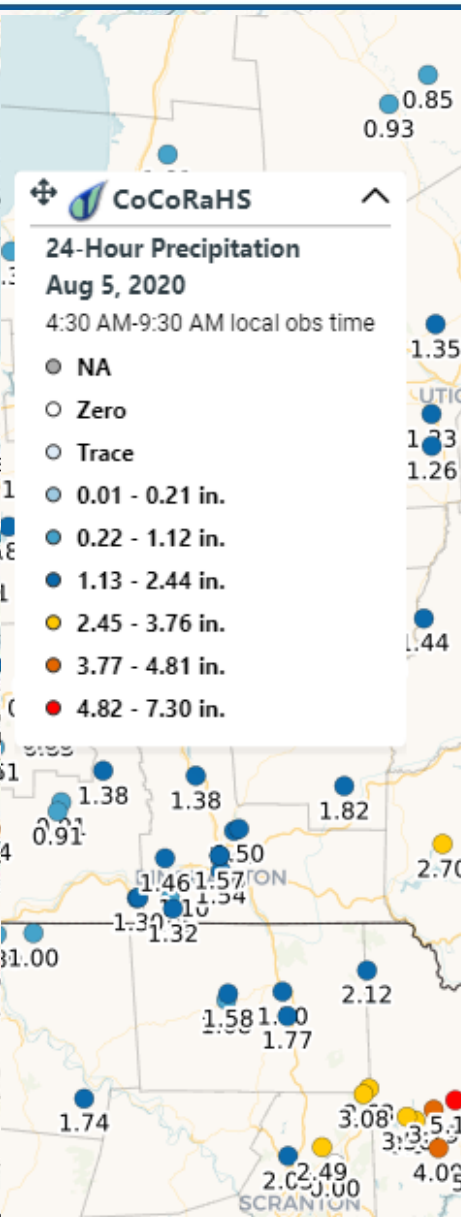






# Join CoCoRaHS!

*Become an observer  
at [www.cocorahs.org](http://www.cocorahs.org)!*



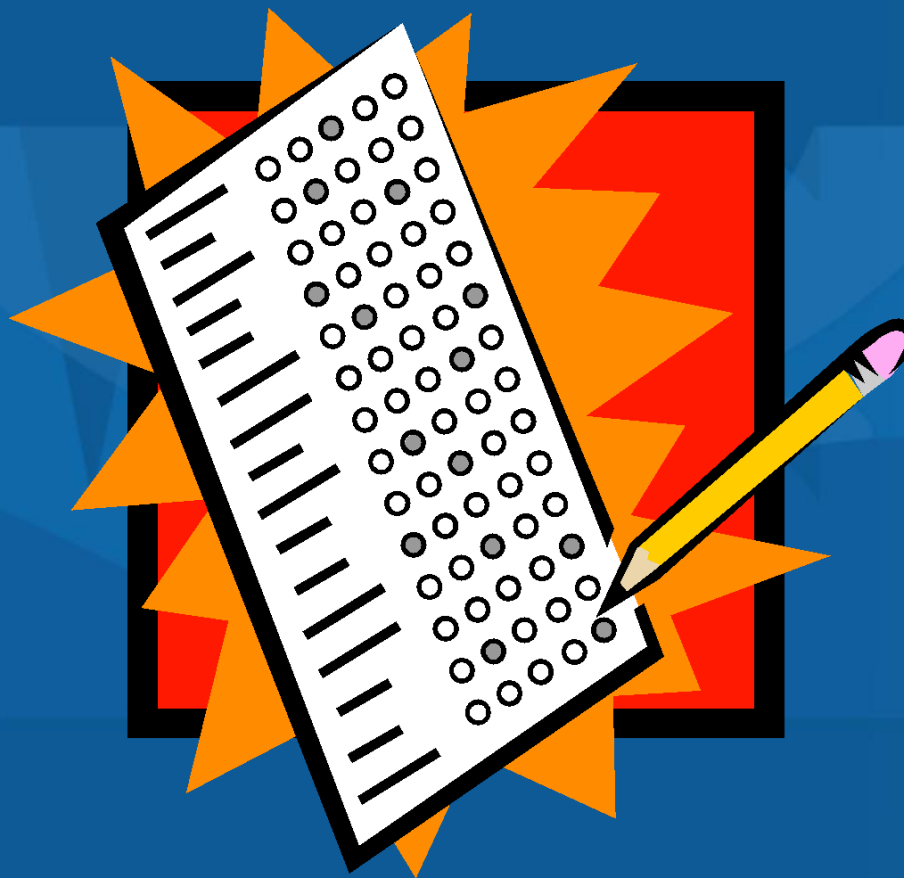
Join the  
community of  
over 300  
CoCoRaHs  
observers across  
eastern NY &  
western New  
England!

Receive emails  
from NWS  
Albany with  
rain/snow maps  
& best  
measuring  
practices





# Quiz - Are you Ready?



Refer to Quiz link on the Internet Skywarn Page



# Spotter Quiz - BONUS



**\$125,000**

Primarily occurring in the central and eastern U.S., a derecho is a type of rare storm characterized by what?

- A: Wall of strong wind**
- B: Rapid snowfall
- C: Spiral-shaped air current
- D: Dust cloud



# Spotter Quiz - BONUS



According to the National Weather Service, hail sizes range from 1/4 inch in diameter, or "pea size," to 4 1/2 inches in diameter, the size of a what?

• A: Golf ball

• B: Chicken egg

• C: Softball

• D: Human head





# Skywarn™ Weather Spotter!

You did it!

*Congratulations*

A large, five-pointed yellow star with a black outline, positioned behind the word "Congratulations".



# Skywarn Spotter Information Sheet



NATIONAL WEATHER SERVICE, NOAA  
ALBANY, NY  
SKIWARN INFORMATION SHEET



## Report Severe Weather (Backup)

Weather Spotter Field Guide	<a href="http://www.weather.gov/media/owlie/SGJune6-11(1).pdf">www.weather.gov/media/owlie/SGJune6-11(1).pdf</a>
Email	<a href="mailto:alb.stormreport@noaa.gov">alb.stormreport@noaa.gov</a>
NWS Albany	<a href="http://www.weather.gov/Albany">www.weather.gov/Albany</a>
Twitter	<a href="https://twitter.com/NWSAlbany">@NWSAlbany</a>
Facebook Page	<a href="https://www.facebook.com/NWSAlbany">https://www.facebook.com/NWSAlbany</a>
NOAA Weather Radio	<a href="https://www.weather.gov/nwr/">https://www.weather.gov/nwr/</a>
Storm Prediction Center	<a href="http://www.spc.noaa.gov">www.spc.noaa.gov</a>
NWS Online Weather School	<a href="http://www.weather.gov/jetstream">www.weather.gov/jetstream</a>
Weather Prediction Center	<a href="http://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a>
River Flood Monitoring	<a href="http://water.weather.gov/ahps">water.weather.gov/ahps</a>
CoCoRaHS	<a href="http://www.cocorahs.org">www.cocorahs.org</a>
NWS Amateur Radio Frequency	Primary 146.64 MHz - Secondary 145.19 MHz

## IMPORTANT WEATHER TO REPORT

When you report, please give your location (including your county) and the time of the observation. Try to report as soon as possible after observing the event and, *remember your safety comes first!* Please concentrate on the following phenomena:

<b>SNOWFALL</b>	After 1 inch of new snow, and then at 2 inches, 4 inches, and every 2 inches thereafter (e.g., 2, 4, 6, 9, 12, etc.). Then final storm total at the conclusion of the event.
<b>FREEZING RAIN</b>	As soon as you observe the occurrence of freezing rain or freezing drizzle, especially if it starts to collect on objects. Call again if the ice accumulation exceeds 1/4 inch. (measure on flat surface)
<b>THUNDER SNOW</b>	Location and time of occurrence
<b>WIND SPEEDS</b>	Report wind speeds greater than 40 mph
<b>RAINFALL</b>	Report when you receive one inch (and then at least every inch thereafter)
<b>FUNNEL CLOUD</b>	A "rotating" appendage descending from the base of a cumulonimbus cloud, but not touching the ground. If possible, always look at the area beneath the funnel cloud for flying debris. If flying debris is observed, it is a tornado.
<b>TORNADO</b>	Violently rotating column of air descending from a cumulonimbus cloud and touching the ground. Look for flying debris. If possible, report any injuries or fatalities
<b>HAIL</b>	Report hail 0.75 or larger. Specify the diameter based on the hail scale (see other side)
<b>FLOODING</b>	Report any flooding you observe, including basement, road, stream, creek, and ice jam flooding. Report the name of the stream/creek, road number/name (if applicable) and depth
<b>DAMAGE</b>	Report all storm-related damage (large branches, fallen trees, structural damage, flood damage, etc.) Even if it is several days after the event.

## DEWPOINT SCALE

Degrees "F"	50-55	55-60	60-65	65-70	>70
Comfort Scale					

HAIL	Pea	Plain M&M	Penny	Nickel	Quarter	Half Dollar
Scale	0.25 in	0.50 in	0.75 in	0.88 in	1.00 in	1.25 in
HAIL	Golf Ball	Baseball	Softball			
Scale	1.75 in	2.75 in	4.00 in			

## ENHANCED FUJITA SCALE

EF0	65-85 mph
EF1	86-110 mph
EF2	111-135 mph
EF3	136-165 mph
EF4	166-200 mph
EF5	>200 mph

## ESTIMATED WIND SCALE

25-31 MPH	Large branches in motion; whistling in telephone wires
32-38 MPH	Entire trees in motion; slight difficulty walking against wind
39-54 MPH	Twigs break off trees; wind generally impedes progress
55-72 MPH	Damage to chimneys and TV antenna; large limbs/branches down
73-112 MPH	Roof surfaces damaged; windows broken; light mobile homes moved or overturned; moving vehicles pushed off road
113-157 MPH	Roofs torn off; weak buildings and mobile homes destroyed
≥158 MPH	Severe damage; cars lifted completely off ground

## DEFINITIONS

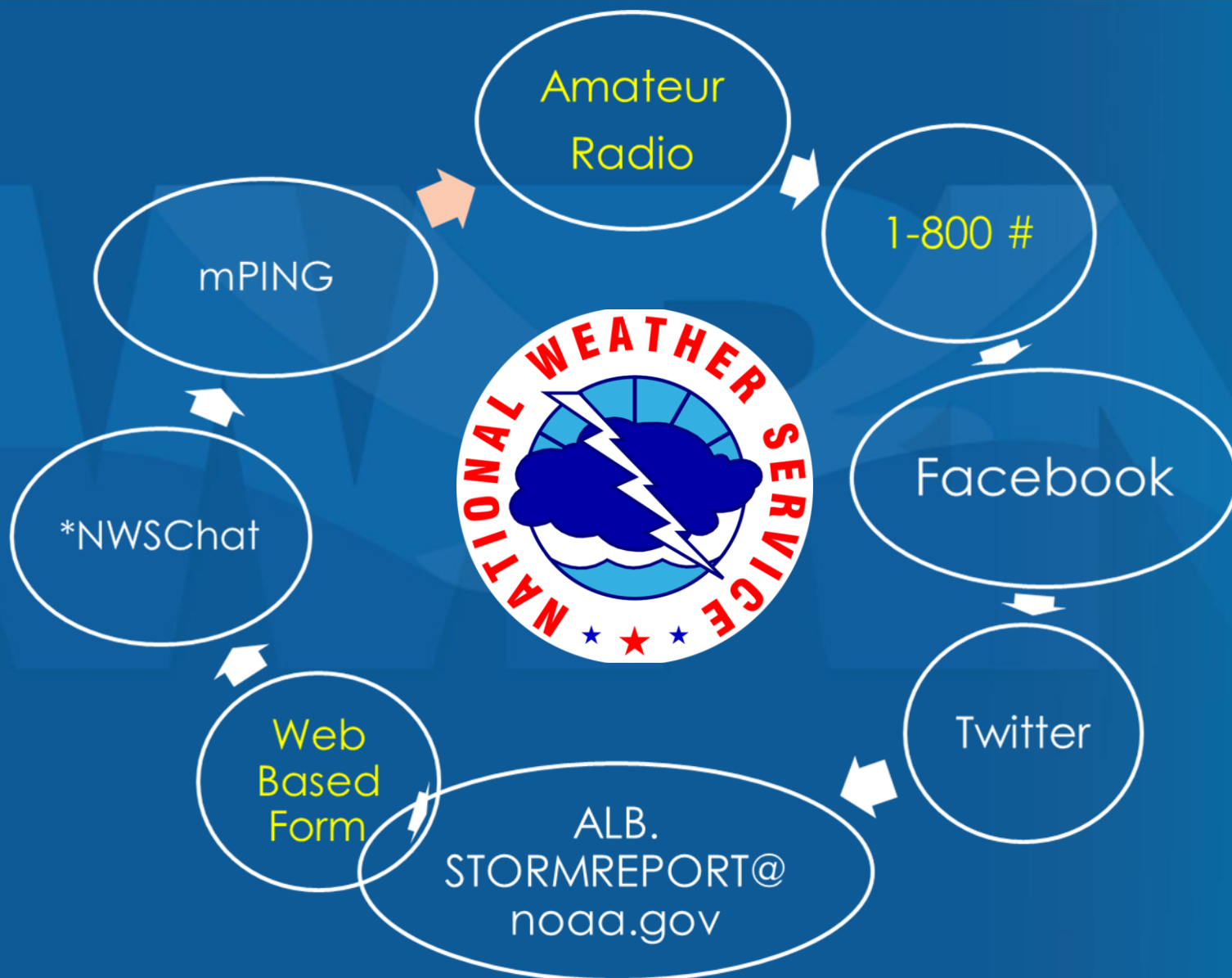
<b>Severe Thunderstorm</b>	A thunderstorm which produces hail to 1 inch in diameter or larger and/or wind gusts to 58 mph (50 kts) or greater
<b>Watch</b>	Conditions are favorable for the weather event in or near the watch area
<b>Warning</b>	The weather event is imminent or occurring in the warned area
<b>Advisory</b>	The weather event will be an inconvenience. However, if caution is not exercised, it could become life-threatening (mostly during the winter months)
<b>Flash Flood</b>	A flood caused by heavy rainfall in a short period of time, generally less than 6 hrs
<b>Flood</b>	Inundation caused by heavy rain which generally takes greater than 6 hrs to occur
<b>Tornado</b>	A violently rotating column of air which extends from a thunderstorm and it is in contact with the ground
<b>Funnel Cloud</b>	A rotating, funnel-shaped cloud extending from the base of a thunderstorm and is not in contact with the ground
<b>Downburst</b>	A strong downdraft with an outrush of damaging wind on or near the ground
	<b>Macroburst</b> - swath of damaging wind more than 2.5 miles wide
	<b>Microburst</b> - swath of damaging wind 2.5 miles wide or less

## SKYWARN FAQs

- SKYWARN Spotter recertification - every 2 years
- SKYWARN Spotter webpage - <https://www.weather.gov/aly/skywarn>



# How to Relay Your Report







# Skywarn Weather Spotter Training

Alb.stormreport@noaa.gov

## Thank You!



Skywarn™ Form (Optional)

<https://forms.gle/BV2oXayoLyPUB6yAA>



[www.weather.gov/albany](http://www.weather.gov/albany)



NWSAlbany



@NWSAlbany



NWSAlbany



# Navigating our web page



[Radar](#)



[Current Weather](#)



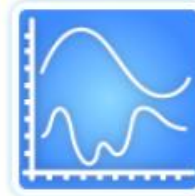
[Rivers & Lakes](#)



[Satellite](#)



[Forecast Maps](#)



[Hour by Hour Forecast](#)



[Winter Weather](#)



[Graphical Hazards](#)



[Forecaster's Discussion](#)



[Recreational Forecast](#)



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[Weather Hazard Briefing](#)



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[Fire Weather](#)



[Climate](#)



[Drought](#)



Skywarn (™)



Climate



Reports



Weather Hazard Briefings



# Following slides are for later use...

Slide intentionally left blank





# How to Navigate NWS Website

[YouTube Link Here](#)

1) Past Weather/Climate Data

1) Public Information Statements, Local Storm Reports, “GAZPACHO” maps

1) Weather Briefings and Weather Story Graphic

1) Hourly Weather Graphics for Your Local Forecast

1) Snowfall Graphics



# Past Weather/Climate Data

## MY FORECAST

Albany International  
Airport NY



Mostly Cloudy

**34°F**

1°C

[Get Detailed info](#)

Tonight



Mostly Cloudy

Low: 26°F

Tuesday



## NWS Forecast Office Albany, NY

[Weather.gov](#) > Albany, NY

Albany, NY

Weather Forecast Office

[Current Hazards](#)

[Current Conditions](#)

[Radar](#)

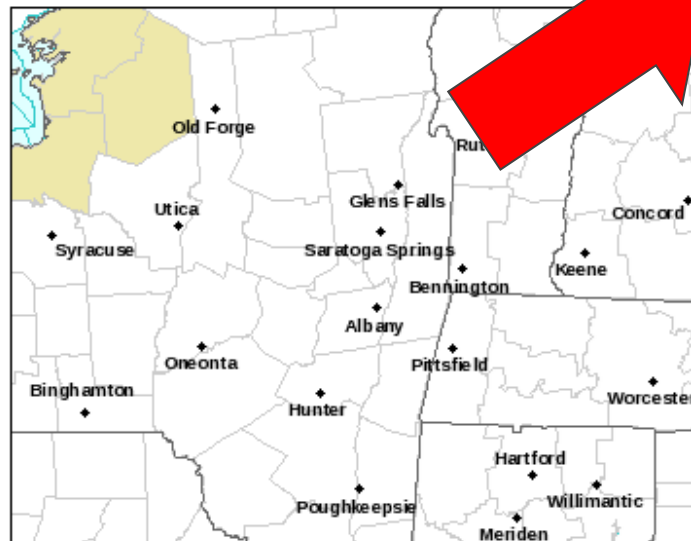
[Forecasts](#)

[Rivers and Lakes](#)

[Climate and Past Weather](#)

[Local Programs](#)

Click a location below for detailed forecasts



Last Map Update: Mon, Mar. 8, 2021 at 5:10:06 pm EST

[Past Observed  
Weather](#)

[24 Hour Summary](#)

[CoCoRaHS](#)

[Past Rainfall](#)

[Snowfall Records](#)

[Drought Outlook](#)

[Climate Prediction](#)

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[Public Information  
Statement](#)

[Past Weather  
Events](#)

[Precipitation &  
Snowfall Maps](#)

[Zoom  
Out](#)



# Past Weather/Climate Data

← → ↻ w2.weather.gov/climate/index.php?wfo=aly



## National Weather Service Forecast Office

# Albany, NY

HomeNewsOrganization

Local forecast by "City, St"

City, St

Main Web Page  
More Climate Page  
Ask Questions



As part of its ongoing efforts to improve service to the public, The National Weather Service has released a local 3-month temperature outlook. Access the outlook for your area [here](#). Please click [here](#) to complete the feedback survey.

Observed Weather

Climate Predictions

Climate Prediction

Local Data/Records

Economic

NOWData

### Observed Weather Reports

1. Product »

- ☐ Daily Climate Report (CLI)
- ☒ Preliminary Monthly Climate Data (CF6)
- ☐ Record Event Report (RER)
- ☐ Monthly Weather Summary (CLM)
- ☐ Regional Summary (RTP)
- ☐ Seasonal Climate Report (CLS)
- ☐ Annual Climate Report (CLA)

2. Location »

Albany NY

Bennington VT

Glens Falls NY

Pittsfield MA

Poughkeepsie NY

3. Timeframe »

☐ Most Recent

☒ Archived Data:

March 2021

February 2021

January 2021

December 2020

November 2020

October 2020

4. View »

[Storm Event Database \(NCDC\)](#)





# Past Weather/Climate Data

← → ↻ w2.weather.gov/climate/index.php?wfo=aly



## National Weather Service Forecast Office

# Albany, NY

Home News Organization

Local forecast by "City, St"

City, St  Go

Main Web Page  
More Climate Page  
Ask Questions



As part of its ongoing efforts to improve service to the public, The National Weather Service has released a local 3-month temperature outlook. Access the product for your area [here](#). Please click [here](#) to complete our feedback survey.

Observed Weather

Climate Locations

Climate Prediction

Climate Resources

Local Data/Records

Astronomical

**NOWData**

### Observed Weather Reports

1. Product »

- ☐ Daily Climate Report (CLI)
- ☒ Preliminary Monthly Climate Data (CF6)
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- ☐ Monthly Weather Summary (CLM)
- ☐ Regional Summary (RTP)
- ☐ Seasonal Climate Report (CLS)
- ☐ Annual Climate Report (CLA)

2. Location »

Albany NY

Bennington VT

Glens Falls NY

Pittsfield MA

Poughkeepsie NY

3. Timeframe »

☐ Most Recent

☒ Archived Data:

March 2021

February 2021

January 2021

December 2020

November 2020

October 2020

4. View »

Go

[Storm Event Database \(NCDC\)](#)



# Past Weather/Climate Data

← → ↻ 🔒 w2.weather.gov/climate/xmacis.php?wfo=aly

**National Weather Service Forecast Office**  
**Albany, NY**

Home News Organization

Observed Weather Climate Locations Climate Data/Forecast Climate Resources Astronomical NOWData

**NOWData - NOAA Online Weather Data**

Local forecast by "City, St"

Main Web Page  
More Climate Page  
Ask Questions

USA.gov  
Government Made Easy


1. Location »

Albany Area  
Glens Falls Area  
Poughkeepsie Area  
Alcove Dam, NY  
Big Moose 3SE, NY  
Cobleskill 2ESE, NY  
Conklingville Dam, N  
Delanson 2NE, NY  
East Jewett, NY  
Gloversville 7NW, NY

2. Product »

☒ Daily data for a month  
☐ Daily almanac  
☐ Monthly summarized data  
☐ Calendar day summaries  
☐ Daily/monthly normals  
☐ Climatology for a day  
☐ First/last dates  
☐ Temperature graphs  
☐ Accumulation graphs

3. Options »

Date:  

4. View »

Click on calendar to navigate to the date you need



# Past Weather/Climate Data



## MY FORECAST

Albany International  
Airport NY



Mostly Cloudy

**34°F**

1°C

[Get Detailed info](#)

Tonight



Mostly Cloudy

Low: 26°F

Tuesday



## NWS Forecast Office Albany, NY

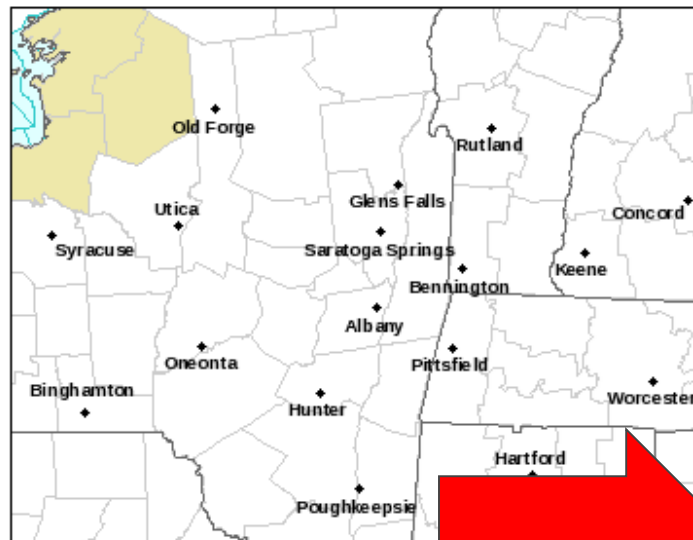
[Weather.gov](#) > Albany, NY

**Albany, NY**

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Click a location below for detailed forecast.



Last Map Update: Mon, Mar. 8, 2021

[Past Observed  
Weather](#)

[24 Hour Summary](#)

[CoCoRaHS](#)

[Past Rainfall](#)

[Snowfall Records](#)

[Drought Outlook](#)

[Climate Prediction](#)

[Historical Records](#)

[Public Information  
Statement](#)

[Past Weather  
Events](#)

[Precipitation &  
Snowfall Maps](#)







# Past Weather/Climate Data



MY FORECAST  
Albany International  
Airport NY



Mostly Cloudy

34°F

1°C [Get Detailed info](#)

Tonight



Mostly Cloudy  
Low: 26°F

Tuesday



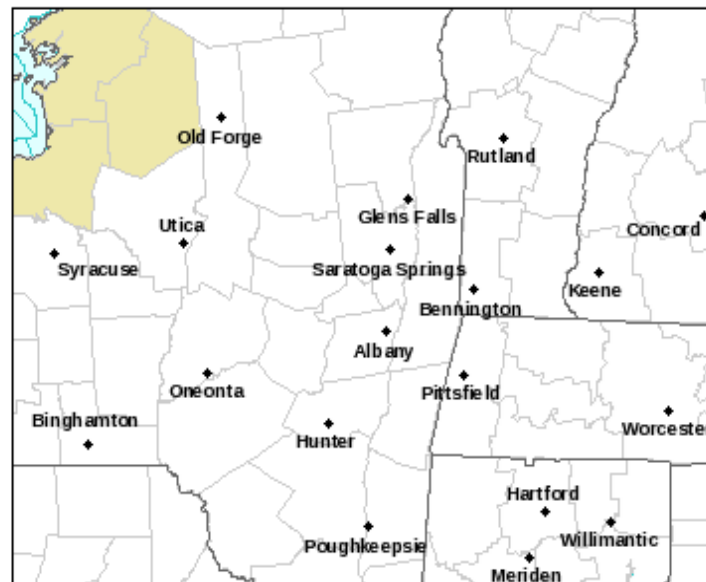
## NWS Forecast Office Albany, NY

[Weather.gov](#) > Albany, NY

Albany, NY  
Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

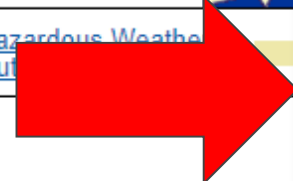
Click a location below for detailed forecast.



Last Map Update: Mon, Mar. 8, 2021 at 5:31:05 pm EST

[Watches,  
Warnings &  
Advisories](#)

[Hazardous Weather  
Outlook](#)



- [Aviation](#)
- [Climate](#)
- [Hydrology](#)
- [Local Definitions](#)
- [Local Science and Research](#)
- [Local CoCoRaHS Program](#)
- [Northeast Drought](#)
- [Stormbuster Newsletter](#)
- [Weather Observer Program](#)
- [Weather Radio](#)
- [Weather Safety](#)
- [Outreach Request](#)

[Weather Story](#)

[Local Radar](#)

[Sat](#)



# Past Weather/Climate Data

change location



Text Product Selector (Selected product opens in new window)

Latest Text Products Issued by ALY



[Radar](#)



[Current Weather](#)



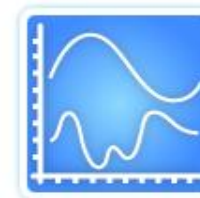
[Rivers & Lakes](#)



[Satellite](#)



[Forecast Maps](#)



[Hour by Hour Forecast](#)



[Winter Weather](#)



[Graphical Hazards](#)



[Forecaster's Discussion](#)



[Recreational Forecast](#)



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[Air Quality](#)



[Fire Weather](#)



[Climate](#)



[Drought](#)



# Public Information Statements, Local Storm Reports, “GAZPACHO” maps

MY FORECAST  
Albany International  
Airport NY



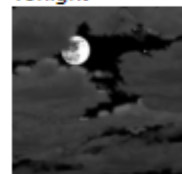
Mostly Cloudy

34°F

1°C

[Get Detailed info](#)

Tonight



Mostly Cloudy

Low: 26°F

Tuesday



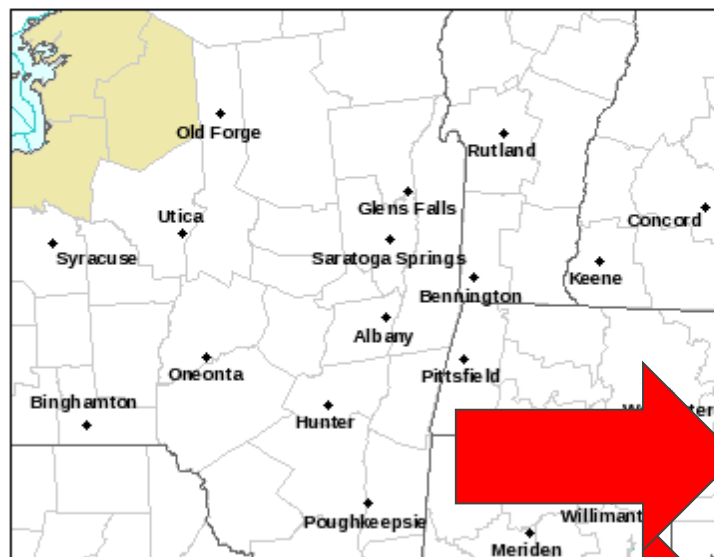
## NWS Forecast Office Albany, NY

[Weather.gov](#) > Albany, NY

Albany, NY  
Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Click a location below for detailed forecast.



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[Past Weather  
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[Precipitation &  
Snowfall Maps](#)

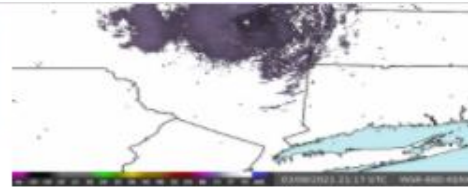






# Public Information Statements, Local Storm Reports, “GAZPACHO” maps

change location



Text Product Selector (Selected product opens in new window)

Latest Text Products Issued by ALY



[Radar](#)



[Current Weather](#)



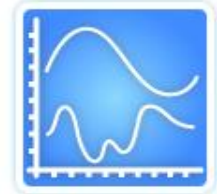
[Rivers & Lakes](#)



[Satellite](#)



[Forecast Maps](#)



[Hour by Hour Forecast](#)



[Winter Weather](#)



[Graphical Hazards](#)



[Forecaster's Discussion](#)



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[Drought](#)



# Public Information Statements, Local Storm Reports, "GAZPACHO" maps

weather.gov/aly/briefing

**Briefing** Storm Reports Winter Thunderstorms Flooding Non-Precipitation

**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

**WFO**  
Weather Forecast Office

# Latest Weather Briefing (PDF)

1

Weather Forecast Office  
**Albany, NY** Follow us on Twitter Follow us on Facebook Follow us on YouTube

Presentation Created  
12/20/2018 11:16 AM

[Area Forecast Discussion \(Text\)](#)



# Public Information Statements, Local Storm Reports, “GAZPACHO” maps

Briefing

Storm Reports

Winter

Thunderstorms

Flood

Non-Precipitation

## Public Information Statement

Listing of snow, ice, rain, wind, or temperature reports by county.

## Local Storm Reports (Graphical)

Local Storm Reports (Snow Only, Graphical)

Local Storm Reports (Text)





# Weather Briefing and Weather Story

weather.gov/aly/briefing

Briefing

Storm Reports

Winter

Thunderstorms

Flooding

Non-Precipitation



NATIONAL WEATHER SERVICE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



**Click Here!**

## Latest Weather Briefing (PDF)

**Updated Once or Twice a  
Day Before and During  
Active Weather.**

**Look for link to this page  
under “News Headlines”  
on homepage.**

Follow us on Twitter

Follow us on Facebook

Follow us on YouTube

Presentation Created  
12/20/2018 11:16 AM

[Area Forecast Discussion \(Text\)](#)



# Weather Briefing and Weather Story

Overcast

**34°F**  
1°C [Get Detailed info](#)

Tonight



Mostly Cloudy  
Low: 26°F

Tuesday



Mostly Sunny  
High: 46°F

[change location](#)



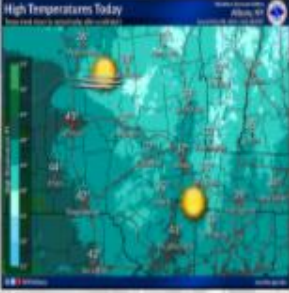
[Warnings & Advisories](#)

[Hazardous Weather Outlook](#)

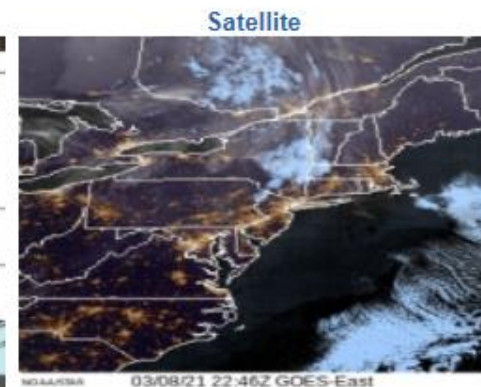
Last Map Update: Mon, Mar. 8, 2021 at 5:51:07 pm EST

**Weather Story**

Sunny, Fair and Dry Weather to Open the Week



High Temperatures Today



*Weather Story is updated at least once a day (mainly by 6am)*



# Hourly Weather Information

**Saturday Night** Partly cloudy, with a low around 25.

**Sunday** Mostly sunny, with a high near 38.

**Sunday Night** Partly cloudy, with a low around 23.

**Monday** Mostly sunny, with a high near 41.

## Additional Forecasts and Information

### [ZONE AREA FORECAST FOR EASTERN ALBANY, NY](#)

[Forecast Discussion](#)

[Printable Forecast](#)

[Text Only Forecast](#)

[Hourly Weather Forecast](#)

[Tabular Forecast](#)

[Hazardous Weather](#)

[Regional Weather Conditions](#)

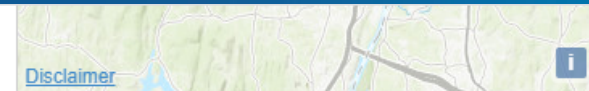
[Air Quality Forecasts](#)

[International System of Units](#)

[Past Weather Information](#)

[Interactive Forecast Map](#)

[Albany National Weather Service](#)



[Disclaimer](#)  
☐ Forecast Area

**Point Forecast:** Albany NY  
42.68°N 73.81°W (Elev. 236 ft)

**Last Update:** 3:40 pm EST Mar 8, 2021

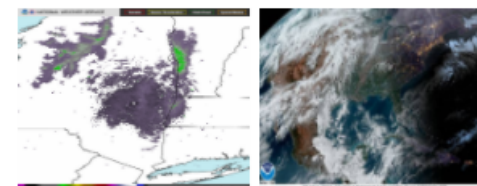
**Forecast Valid:** 5pm EST Mar 8, 2021-6pm EDT Mar 15, 2021

[Forecast Discussion](#)

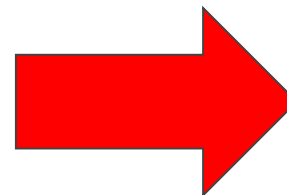
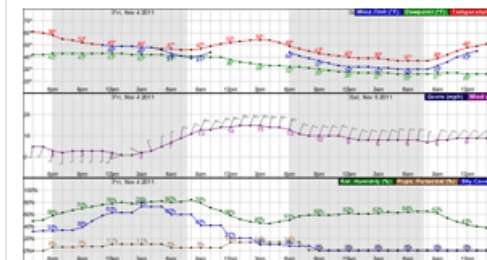
[KML](#) [XML](#)

## Additional Resources

### Radar & Satellite Image



### Hourly Weather Forecast







# Snowfall Graphics

change location



Text Product Selector (Selected product opens in new window)

Latest Text Products Issued by ALY



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[Current Weather](#)



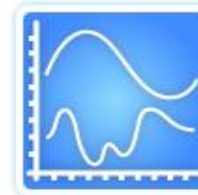
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